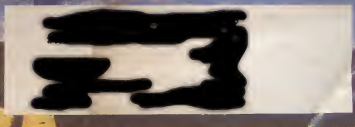
Special Issue!! Annual Awards 120 Top Products

DECEMBER 1995

PC Computing

BEST 1001 INTERNET SITES

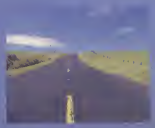


ZD Windows Buyers Guide • Christmas Gift Blowout

This wide-open
road brought to you by new Microsoft Office

Introducing new Microsoft Office for Windows 95

Software that reveals itself, removes the barriers between you and capabilities old and new. Software that doesn't get in your way when you're trying to work.



Features that can streamline the way you work now reveal themselves as you work. Everyday tasks as basic as entering text are easier. Spell-checking and formatting happen automatically, on the fly. Applications that you once used in a limited fashion now offer you new and easier ways to use them, to do more with them. One of those ways is the Answer Wizard. When you have a question you simply type it in. "How do I get this page to print sideways?" It will show you how. Other wizards are built into individual programs to walk you through complex tasks. To create a customer database from scratch, you simply ask the Database Wizard to show you how. This is called IntelliSense™ technology, and it senses what you are doing, and helps you do it with fewer steps. It lets you focus on your work, not on making your software work.

Now Applications work together. And at last work the way you always hoped they would.

New Microsoft® Excel, Word, PowerPoint,® Microsoft Access, and Schedule+. Use them to work more effectively, to access and share information throughout your company, to conduct more in-depth analysis. Pull information from one application into another seamlessly. Manage your key contacts in Schedule+ and drop addresses into Word when you write them letters. Use PowerPoint's Meeting Minder to take notes of your meeting, and then export them to Word to summarize. Use the new Office Binder to create a single document that uses components from all five programs. Combine a cover letter, financial projections, and professional-looking charts and graphs seamlessly into one document. Save and print it as one. Open it and have all the applications it uses launch at once. You spend less time going back and forth between programs. Less time working around obstacles. More time focusing on the task at hand.

Microsoft

WHERE DO YOU WANT TO GO TODAY?™

To see an autodemo and more, go to http://www.microsoft.com/msoffice. Or [illegible]-26-9400.
© 1995 Microsoft Corporation. All rights reserved. Microsoft, PowerPoint, Windows, and the Windows logo are registered trademarks and Intelli[illegible] the Windows Start logo and Where Do You Want To Go Today? are trademarks of Microsoft Corporation. *This add-on is available at no charge (this does not include shipping and handling).

Together, the programs break down the barriers between you and other people. You find new ways to communicate, to share information, to collaborate.

Now you can use Microsoft Word as your e-mail editor with the Microsoft Exchange Inbox in Windows 95. Create your messages in Word, and use all of its functionality, its formatting options, to communicate more clearly, more convincingly. With Word's Internet Assistant,™ you can browse the World Wide Web and publish your own documents there. If you subscribe to The Microsoft Network, you can access it directly from Office. FindFast lets you search company servers and individual desktops for information you need by typing a phrase or key word. Even finding the information you need to schedule a meeting is made simpler with the Meeting Wizard in Schedule+. It can find a time when your list of people can meet, locate a conference room, and notify everyone of the time and place.

Now you can take full advantage of Windows 95.

New Microsoft Office was designed to work hand-in-hand with the Windows® 95 operating system and its simplified user interface. To make the most of 32-bit performance, long filenames, shortcuts, multitasking, and the Windows Explorer. Together, they make computing fundamentally easier and faster. They make it possible for you to spend less time computing, more time working effectively.

Now fewer things will get between you and the way you want to work.
Start

PUT SOME MUSCLE ON YOUR DESKTOP

COMPAQ PROLINEA

The Compaq® ProLinea® family now combines real affordability with innovative features that make it the most powerful desktop in its class. To start, you can choose the processor you want — from extremely fast (Pentium® 75MHz) to blindingly fast (Pentium 133MHz). And the ProLinea is available in three form factors: 3 slots/3 bays, 4 slots/4 bays, or 5 slots/5 bays.

We've also included PCI Local Bus Graphics and a host of other features you'll find in the chart to the right. And naturally, we have made the Compaq ProLinea Plug and Play compliant. So for a power-packed desktop that respects your budget, get the ProLinea. And there's no need to exert yourself — just call Compaq DirectPlus.®

COMPAQ DirectPlus

Options & Upgrades	
8MB Memory Kit	$359
Compaq 171FS Monitor	$425
14.4Kbps Internal Fax Modem	$79
QuadSpeed CD-ROM Drive	$239

WITHOUT STRAINING YOUR BUDGET.

COMPAQ PROLINEA

	575e	5120e	5100	5133
Processor	Pentium 75MHz	Pentium 120MHz	Pentium 100MHz	Pentium 133MHz
Std./Max. Memory	8MB/136MB	8MB/136MB	16MB/192MB	16MB/192MB
Hard Drive	630MB or 1GB	630MB or 1GB	630MB or 1GB	1GB
Cache Internal	16KB	16KB	16KB	16KB
Cache External	256KB (optional)	256KB (optional)	256KB	256KB
Architecture	PCI	PCI	TriFlex/PCI	TriFlex/PCI
Video Memory/Max.	1MB/2MB	1MB/2MB	1MB/2MB	1MB/2MB
Compaq 150 Color Monitor	Yes	Yes	Yes	Yes
Diskette Drive	3.5" 1.44MB	3.5" 1.44MB	3.5" 1.44MB	3.5" 1.44MB
Expansion Slots (Total)	3	3	4	5
Drive Bays (Total)	3	3	4	5
Ports: Serial/Parallel	1/1 (ECP)	1/1 (ECP)	1/1 (ECP)	1/1 (ECP)
Security Features	Yes	Yes	Yes	Yes
Processor Upgradable	Yes	Yes	Yes	Yes
101-Key Keyboard, Mouse	Yes	Yes	Yes	Yes
Software Preinstalled (Choice of)	MS-Windows® 95 or MS-Windows 3.1	MS-Windows 95 or MS-Windows 3.1	MS-Windows 95 or MS-Windows 3.1	MS-Windows 95 or MS-Windows 3.1
Energy Star Compliant	Yes	Yes	Yes	Yes
Limited Warranty*	3-Year	3-Year	3-Year	3-Year
Price†				
630MB Hard Drive	**$1,779**	**$2,269**	**$2,279**	–
1GB Hard Drive	**$1,979**	**$2,429**	**$2,769**	**$3,329**

ASK FOR OUR NEW FREE CATALOG. OR FOR THE NAME OF YOUR NEAREST COMPAQ AUTHORIZED RESELLER, CALL 1-800-345-1518.

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*Restrictions and exclusions apply. Certain monitors and options are covered by a One-Year Warranty. ProLinea is covered by a Three-Year Limited Warranty. Call for details. †Call for lease price. Leasing is provided for a term of 36 months and is subject to approved credit and certain terms and conditions. Call for details. Reseller prices may vary. © 1995 Compaq Computer Corporation. All Rights Reserved. Compaq and the Compaq Logo Registered U.S. Patent and Trademark Office. ProLinea is a registered trademark and DirectPlus is a registered service mark of Compaq Computer Corporation. Products, prices and programs are subject to change without notice. Other products are trademarks or registered trademarks of their respective companies. Windows is a registered trademark of Microsoft Corporation. Pentium is a registered trademark of Intel Corporation in the U.S. and other countries. Offer available in the U.S. only.

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Whichever Compaq notebook you choose, one of our cost-saving Option Paqs™ will make it work even harder for you. And since all our notebooks come with a 3-Year Worldwide Limited Warranty,* you can count on Compaq support whether you're working at home, or in one of over 85 countries around the world.

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- 486DX4/100MHz Processor
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- 720MB Hard Drive
- 10.4" Color Dual Scan Display
- 3.5" 1.44MB Diskette Drive
- Two PCMCIA Type II Slots
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- Compaq Global Carrying Case

Only $299

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- NiMH Battery with up to 4½ hours of battery life
- 6.93 lbs. total carrying weight
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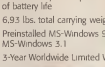
- 3-Year Worldwide Limited Warranty*



- Price includes a FREE Compaq SmartStation Expansion Base† (shown above).

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Elite Smart Option Paq

- Compaq 150 Color Monitor
- Enhanced Keyboard and Mouse
- APC Professional 7 Surge Protector

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LTE 5000

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- EasyPoint II Integrated Pointing Device
- NiMH Battery with 2 to 4 hours of battery life
- 101-Key Keyboard
- Infrared Communication Port
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MultiBay™ Expansion Base

The industry's first modular expansion base allows devices to be shared between the notebook and base. Supports two additional hard drives or CD-ROM drives and an additional diskette drive. Also charges up to two batteries.

Only $489

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Call for lease price. Leasing is provided for a term of 36 months and is subject to approved credit and certain terms and conditions. Call for details. Reseller prices may vary. *Restrictions and exclusions apply. Battery packs and certain options are covered by a One-Year Warranty. Contura 420C, Contura 430C, LTE Elite and LTE 5000 are covered by a Three-Year Worldwide Limited Warranty. †Free SmartStation Expansion Base promotion is for LTE Elite 4/75C and 4/75CX models only. Free offer valid through 12/31/95 or while supplies last. Offer available in the U.S. only. © 1995 Compaq Computer Corporation. All Rights Reserved. Compaq and the Compaq Logo Registered U.S. Patent and Trademark Office. Contura is a registered trademark. DirectPlus is a registered service mark. Option Paq is a service mark, and EasyPoint, LTE Elite, LTE 5000, MultiBay and SmartStation are trademarks of Compaq Computer Corporation. Products, prices and programs are subject to change without notice. Other products are trademarks or registered trademarks of their respective companies. Windows is a registered trademark of Microsoft Corporation. Pentium is a registered trademark of Intel Corporation in the U.S. and other countries.

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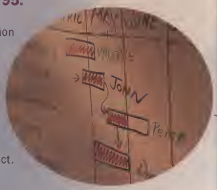
to guide
your project down a clear path

Introducing new Microsoft Project for Windows 95.

Now you can manage projects more simply, more smoothly, by communicating project information as it occurs. With new Microsoft® Project you can convey project status quickly and effectively so your boss, customers, and coworkers are always in the loop. From sharing task deadlines and responsibilities, to letting people know about changes and the impact they'll have on the deadline, you have the tools to organize your projects into manageable steps and keep them moving in the right direction. New Microsoft Project unlocks the doors of communication and gives you the power to navigate the most efficient route to a successful end product.



Graphical views let teammates visualize where the project is going.

With Microsoft Project you can display project data in ways that everyone can understand. Great-looking Gantt Charts integrate text, timelines and graphical bars so everyone can see start and finish dates, interdependencies and task assignments. Throughout your project, you can also use a Monthly Calendar report to share your plan in a format that's clear and easy to read. And since Microsoft Project shares many of the same key commands with other Office applications, it will be easy to create schedules and reports. But if at any time you need help, type in a question and the Answer Wizard gives you the information you need. Microsoft Project helps you illustrate every phase of your project so you and your team keep your goals in sight.

Microsoft®

WHERE DO YOU WANT TO GO TODAY?™

Designed for Windows 95

To see an autodemo and more, go to http://www.microsoft.com/msoffice. Or call 800-426-9400.

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Keep everyone moving on the same track with open lines of communication.

Microsoft Project is completely integrated with a wide range of e-mail systems* and Schedule+ so that with a single click, changes and additions are immediately distributed to and from teammates. Assignments, task changes, and progress can be communicated and updated without ever reentering information, so you save time and eliminate mistakes. And because Microsoft Project is a member of the Office family, sharing data between programs is easy. For example, you can start building a schedule by simply dragging a task list out of Microsoft Excel and dropping it directly into your Microsoft Project plan. You keep communication clear and information consistent and your project continues to move exactly the way you planned.

Now you can take full advantage of Windows 95.

Microsoft Project is the world's best selling project management software and now is optimized to work hand-in-hand with the 32-bit performance, advanced multitasking, and simplified user interface of the Windows 95 operating system. Together, they help open the lines of communication. Together, they help you enhance the way you manage your projects.

PC Computing

DECEMBER 1995 VOLUME 8 NUMBER 12

1001 BEST INTERNET SITES

Put the best of the Web at your fingertips with *PC Computing*'s exclusive Internet directory! We give you instant access to 1,001 sites in more than 100 categories—plus, editors' favorite picks. **121**

Best Products of 1995

Don't miss our annual awards! *PC Computing*'s editors pick the 120 most innovative and valuable systems, peripherals, and applications of the year. **158**

Holiday Gift Guide

Get out your checkbooks! We have the perfect gifts for everyone on your holiday list—including yourself. **209**

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USABILITY APPROVED: *Whenever you spot this seal, you've found hardware or software that meets or beats the tough standards of our Usability Labs.*

ONLINE EXTRAS: *This symbol means you'll find freebies, bug patches, and other bonuses on our Web site, our CompuServe and Microsoft Network forums, or our CD-ROM.*

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80 IBM Aptiva Model M50, HP Pavilion 7050, NEC Ready 9522, and Digital Equipment Starion 940 Fully loaded systems for the office and home.

83 HP CopyJet Color Printer-Copier An astonishing color copier and printer in one.

84 Compaq LTE 5000 A CD-equipped portable.

86 AST Bravo MS-T, Digital Equipment Celebris GL 5133ST, NEC PowerMate P133, and Quantex QP5/133 133MHz Windows 95 supersystems.

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94 Motorola AirCommunicator vs. DTS Wireless Zap-it Wireless communicators.

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intel inside pentium

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VersaBay™ II technology lets you configure the Versa® 4000 at a moment's notice. Need multimedia? Slip in the CD-ROM.

Designed for Microsoft® Windows 95

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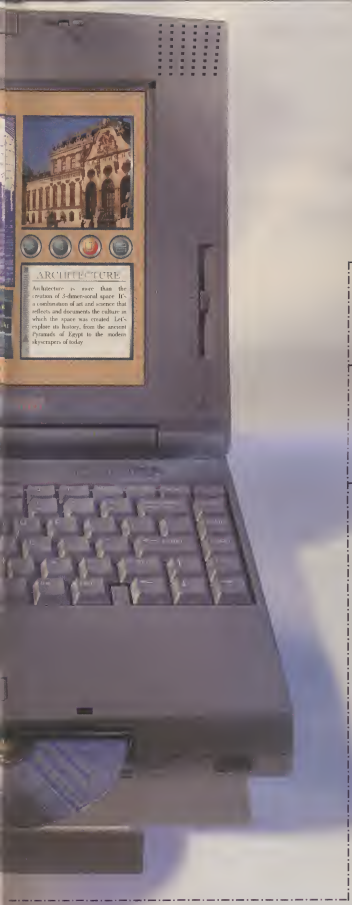

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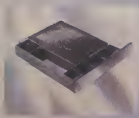
AND TIMES WHEN YOU DON'T.



For more power, slide in a second state-of-the-art lithium-ion battery.

Want additional storage? Snap in a second hard drive.

For software installation, insert the 1.44MB floppy disk drive.

Introducing the NEC Versa® 4000. Along with the innovative VersaBay II, the Versa 4000 features a 10.4" high-resolution screen, full-motion video support, SoundBlaster® Pro compatibility, two built-in speakers and a microphone. So what do you get when you combine all that with its 90MHz Pentium® processor®, 810MB hard disk, 8 - 40MB RAM, a lithium-ion battery, a VersaGlide™ pointing device and hot-swappable PC Cards? Simple. Not just the most advanced notebook for multimedia, the most advanced notebook, period. Call 1-800-NEC-VERSA.

SEE, HEAR AND FEEL THE DIFFERENCE.™

NEC

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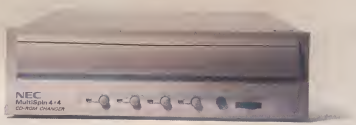

INTRODUCING THE MULTISPIN® 4x4™ CD-ROM CHANGER.

Now if you need to access up to four internally held CDs, there'll be virtually nothing to stop you. Including your computer. Because if you have a standard PC with an open drive bay, you can easily install the NEC MultiSpin 4x4 CD-ROM changer. It fits into exactly the same space, and holds four CDs at once. So all it takes is a simple click of your mouse and you're into a world of multimedia, jumping between music, text and video discs as often as you like. Not to mention as quickly as you like, since this new changer delivers quad speed performance along with incredibly smooth video and stunning animation. Even its low price makes things easy on you. So now, thanks to the MultiSpin 4x4, if you've got the space for one CD, you've got the space for four.

SEE, HEAR AND FEEL THE DIFFERENCE.

NEC

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Coming Soon

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DATABASE FACE-OFF The new Windows 95 databases are here! We bring the top products into our Usability Labs and put them to the ultimate test. Find out which databases are the easiest to learn and will make you the most productive.

SOUND ADVICE Why settle for second-rate sound on your PC when you can have the best for only a couple hundred dollars? We test the best sound cards and speakers, and report which ones are right for you. Also, we take a look at 3-D audio technologies and other new sound innovations.

RIGHT WAY TO THE I-WAY What's the best way to get wired to the World Wide Web? Read our special report on the features and services of local, national, and commercial Internet service providers.

ALSO NEXT MONTH

Crossroads Prices on rewritable optical drives are falling fast, and two standards are vying for market share: phase change and magneto-optical. Find out which one will come out ahead in the next year.

New! Reviews of the first Pentium Pro desktop PCs, ultralight 120MHz Pentium portables, revolutionary new storage devices, and high-speed network printers. Plus, look into our A-List for top hardware and software picks in over 50 categories.

Soho Reviews of new products for the small office and home office, and hands-on usability testing of the newest three-in-one multifunction printers.

I-Way Patrol Check out the best security secrets, free downloads, and hot new sites found on the Web.

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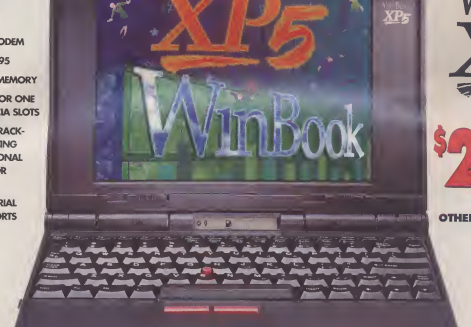

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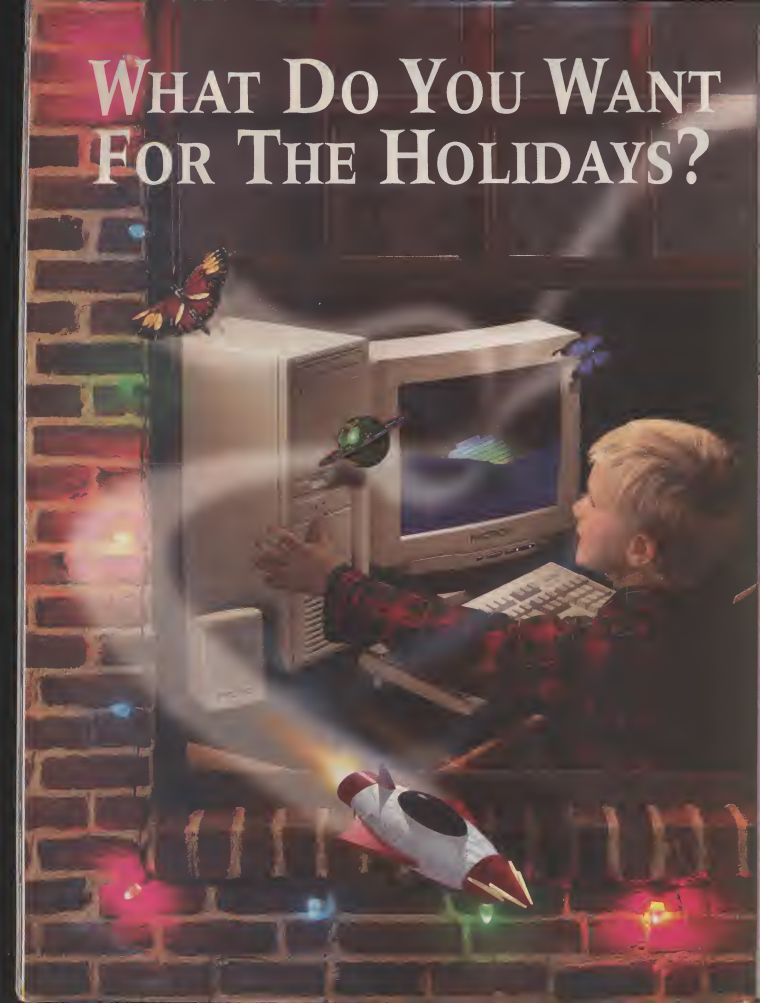

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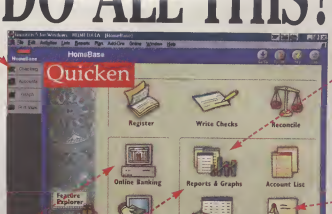

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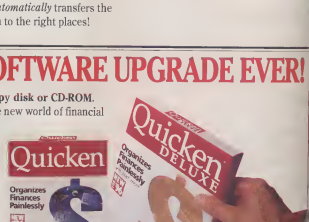

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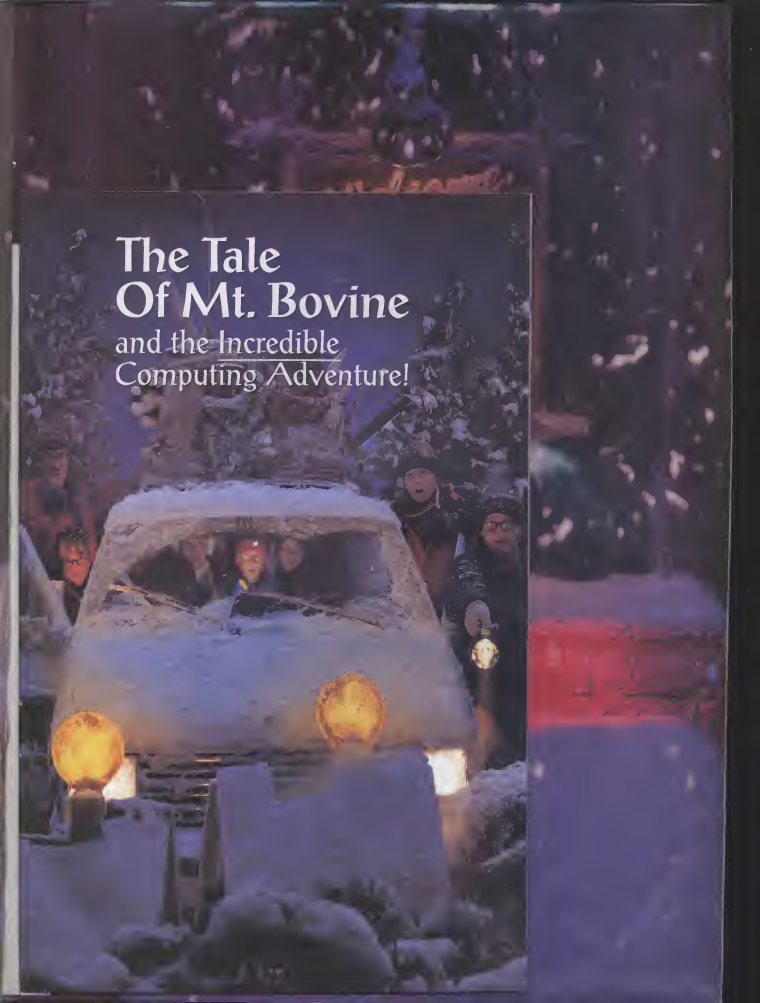

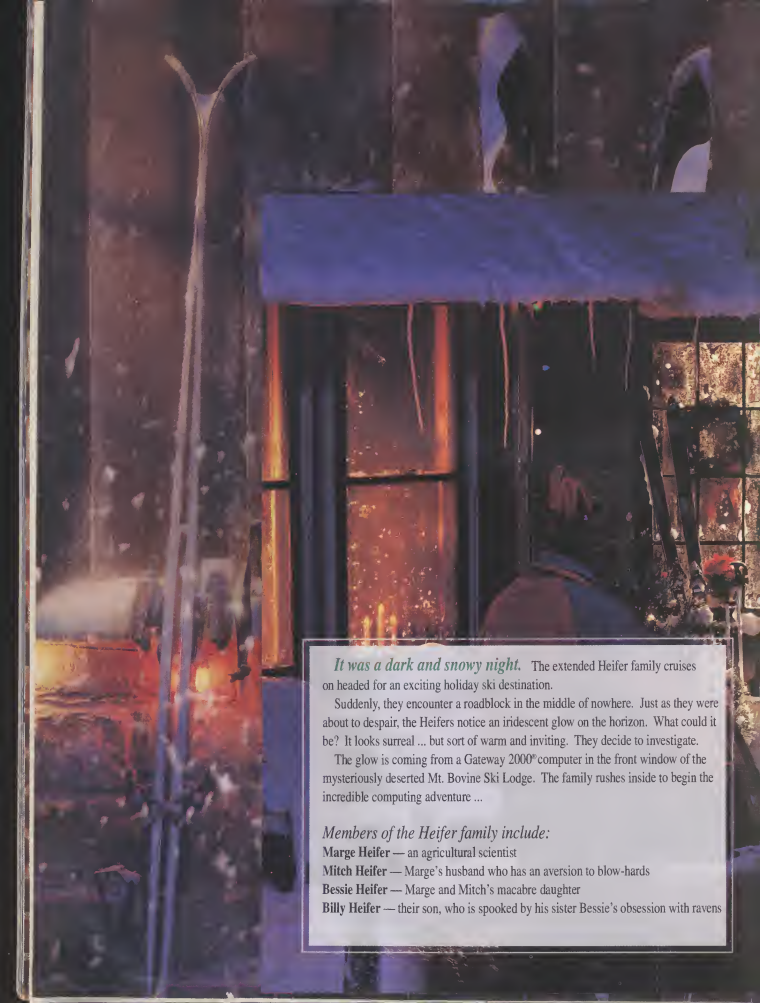

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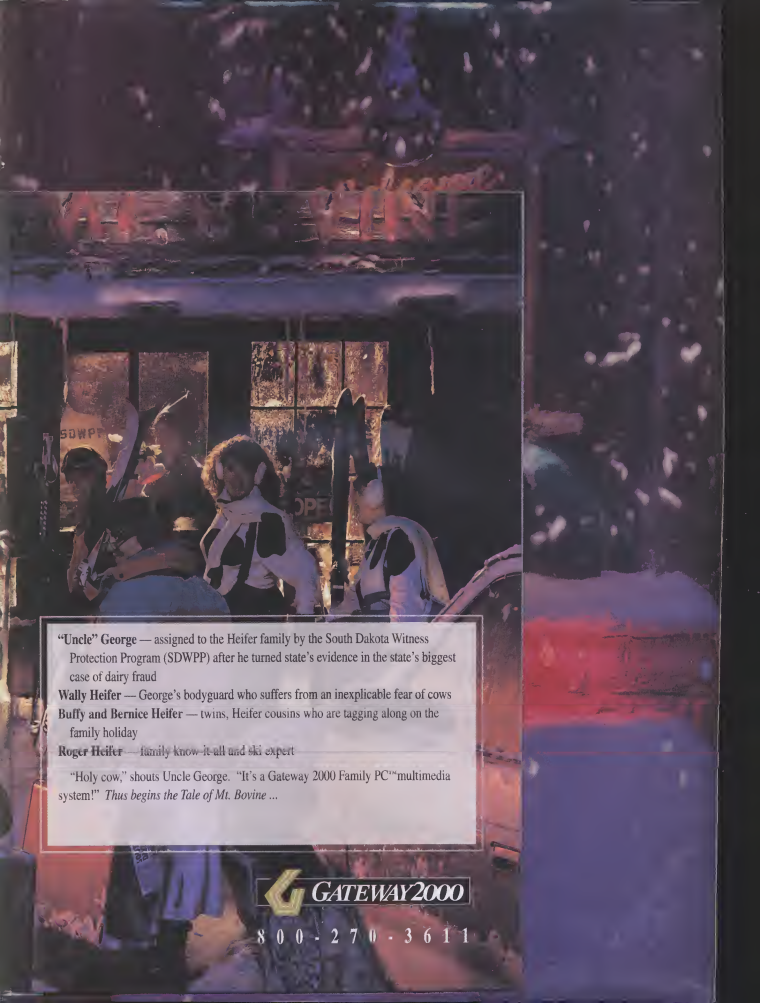
Marge Heifer — an agricultural scientist
Mitch Heifer — Marge's husband who has an aversion to blow-hards
Bessie Heifer — Marge and Mitch's macabre daughter
Billy Heifer — their son, who is spooked by his sister Bessie's obsession with ravens



"Uncle" George — assigned to the Heifer family by the South Dakota Witness Protection Program (SDWPP) after he turned state's evidence in the state's biggest case of dairy fraud

Wally Heifer — George's bodyguard who suffers from an inexplicable fear of cows

Buffy and Bernice Heifer — twins, Heifer cousins who are tagging along on the family holiday

Roger Heifer — family know-it-all and ski expert

"Holy cow," shouts Uncle George. "It's a Gateway 2000 Family PC™ multimedia system!" *Thus begins the Tale of Mt. Bovine ...*

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"*Wally, I'm happy as all get-out* with this Gateway computer. Get out there and go skiing with your family. Anyway, there's no one here to recognize me," says Uncle George, busy at the keyboard the next morning. "And Wally ... quit whining about cows. I'm telling you, it's gotta be a theme resort, man. Just because it's called Mt. Bovine doesn't mean there's an Abominable Snow Cow herd out there." But George can't convince him. So Wally stays in with George, who is totally entranced by the **Gateway 2000® P5-100 Family PC™ multimedia system** standard with MPEG technology, and priced at only $2,199 — an unbeatable value!

New MPEG Technology For Movie-Quality Video

All Gateway 2000 Family PC multimedia systems now come standard with new MPEG (Motion Picture Experts Group) data compression technology for movie-like video performance. MPEG gives you incomparable full-screen, full-motion video right from your CD-ROM drive! Combined with the video scaler on all Gateway graphics cards (standard on our Family PC systems), moving pictures from all your MPEG multimedia applications will be smoother — no herky-jerky moving images here! And it won't be long until all your favorite flicks will be available on CD.

"Wally, get a load of this! In Gateway's Generations II software collection is Masters® Golf," exclaims George. "Check out all this live-action video and interviews with cool pros like Bobby Jones. I can't believe the video. It's just like being there! And Wally, I called the friendly folks at Gateway, and they say there are more MPEG-ready applications coming soon!"

850MB Hard Drives Minimum On All Gateway PCs!

Get the storage space you'll need to store today's and tomorrow's intensive software applications. Gateway 2000 introduces a new minimum standard — hard drives from 850MB to 2GB on all Gateway desktop PCs! Even with all the incredible pre-installed software on your Gateway system, you'll know that you still have plenty of room to go. These hard drives support DMA Mode 1 or 2, providing you with the best performance for multitasking environments like Windows® 95.

George can't believe his good fortune in discovering the Gateway P5-100 Family PC complete with MPEG technology. Meanwhile on Udder Trails, Buffy and Bernice think it's just plain rude for Uncle George and Wally to be so antisocial.

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Inseparable as always, the twins Buffy and Bernice head out to the moguls on Cud Pass. "I can't believe George and Wally are at that computer already this morning," pouts Bernice. "They are *so* ... hey Buffy, where is that incredibly cool music coming from? No way! Buff, that *computer* is pumping out those tunes!" So the twins spend their day with the **Gateway 2000® Holiday XL system**, while Mt. Bovine's entertainment, Disco Santa, lip synchs along to the high-fidelity sound.

Stereo Speaker Sound For The Audiophile At Heart!

You'll be in awe when you hear the amazing stereo sound of Gateway's Altec™ Lansing ACS-40 speakers now standard on all Gateway Family PC™ multimedia systems! Exclusively from Gateway 2000, these high-quality speakers are a step above any other standard speaker set in the industry.

Add our Altec Lansing ACS-250 subwoofer for only $75. Your speaker system will pump out an additional 40 watts of thumping bass on all your software applications and music CDs with this heart-pounding subwoofer.

Experience the full-bodied sound of a home stereo system with Altec Lansing ACS-400 speakers. These 1-foot-tall tower speakers include the ACS-250 subwoofer and Dolby® Pro-Logic Surround Sound for the epitome of stereo sound on all your multimedia applications and music CDs. The ACS-400s are available exclusively through Gateway 2000 as an upgrade from the ACS-40 speakers for just $120.

6X EIDE CD-ROM Drive For Super-Fast Performance

Be ready for tomorrow's technology with this lightning-fast 6X CD-ROM drive. It's the fastest EIDE CD-ROM found anywhere with 900KB/second data transfer rate and 214ms average access time. Combine the 6X CD-ROM with any Gateway

graphics accelerator standard on our Family PCs, and you'll get smooth full-motion video and be set for video scaling applications including MPEG and video conferencing.

"Bernice, I'm just blown away by the stereo sound of Gateway's Holiday XL speakers!" exclaims Buffy. "And I can't believe how cool and helpful those Gateway tech support people were today. Boy, I wish *we* knew that much about computers! Check out this Music Central™ 96 software application running on our really fast 6X CD-ROM." Meanwhile, back on Bull Run, Marge is anxious to try the business applications on one of those Gateway 2000 PCs, known for their high quality and value.

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On a break from Bull Run, Marge and the kids, Billy and Bessie, are thrilled to find a **Gateway P5-120 Family PC™ multimedia system**. And Marge sees visions of the perfect holiday ahead with all the software applications available from Gateway.

Microsoft Windows 95 At Your Service

All Gateway 2000® PCs include Microsoft® Windows® 95 and are optimized to take full advantage of this new operating system! You'll be prepared to weather all the computing storms of tomorrow with Windows 95's 32-bit platform.

Gateway's New Generations II Software Collection!

You'll get 45 of the newest, most popular software programs in the world with Gateway's new Generations II software collection, pre-installed on all Gateway Family

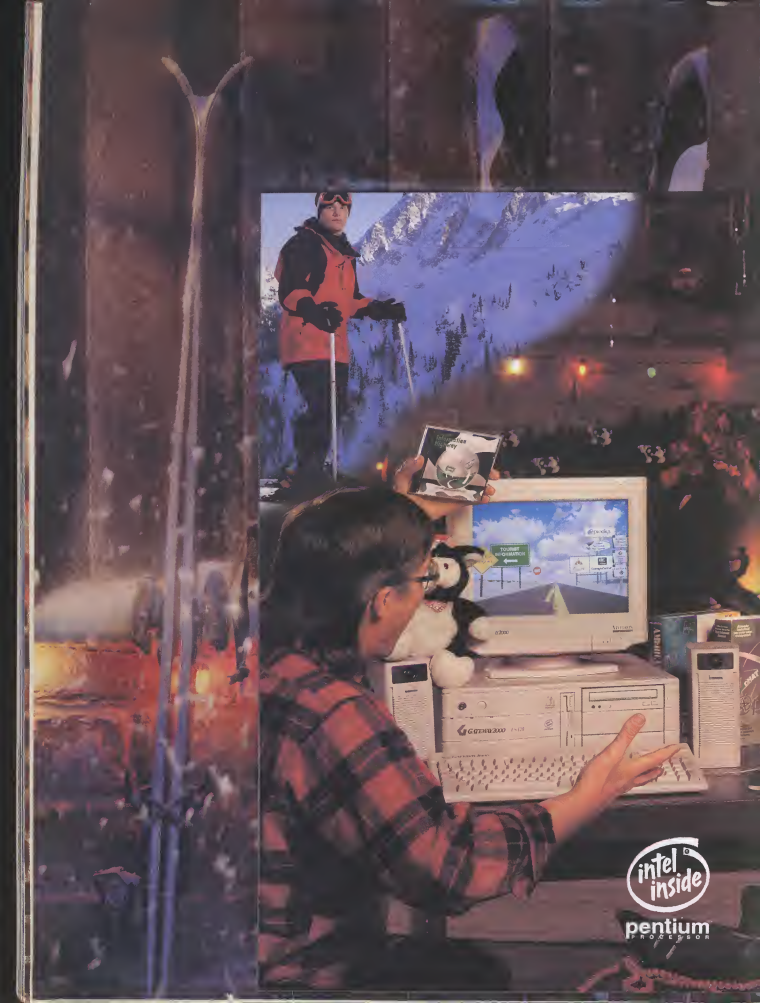
Featured with optional 17" CrystalScan® monitor.

PC multimedia systems. Most Generations II programs are optimized for Windows 95, bringing new life to your multimedia software. And don't forget to ask about Gateway's Ultimate Software Bundle — unrivaled in the world of software bundles!

Takin' Care Of Business With MS Office 95, Professional Edition

Gateway's Holiday XL configuration, and our P5-100, P5-120, and P5-133 Professional systems all include MS Office 95, Professional Edition, with 32-bit versions of MS Word, Excel, Schedule+, and PowerPoint® presentation graphics program — along with Access® database and Bookshelf® 95 delivered upon release from Microsoft ($10 shipping). These feature-rich applications provide innovative tools and resources to take advantage of Windows 95, for the ultimate performance.

"Mom, dig this!" exclaims Billy, experiencing the full multimedia fun of NHL® Hockey '95, available in the Gateway Sports Pack. Marge smiles, but can hardly wait to explore MS Office 95. While back on Herding Road, Mitch is sick of Roger's free-advice, King-Of-The-Hill attitude ... looks around and ... "Whoa, what the heck's going on at Mt. Bovine? Marge? ... kids? Hey Rog, I'll be right back, buddy."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"Know-it-all, big ski expert Roger," mutters Mitch as he enters the warm glow of Mt. Bovine lodge, "I've been itching to get in here with these computers for days anyway!" With that, Mitch stumbles into Mt. Bovine and almost lands right on a **Gateway 2000® P5-120 Family PC™ multimedia system** where he discovers a whole new world on the information superhighway!

Introducing The Gateway 2000 Information Highway CD

When you get a Gateway 2000 PC with fax/modem, your universe erupts with more information and communication capabilities at your fingertips than you ever thought possible! And we'll include our own Gateway 2000 Information Highway CD to make your navigation around this new universe easy. The Info Highway CD has a cool user interface with point-and-click graphical commands that lead you through trial memberships to CompuServe® Prodigy® America Online® and Reuters Money Network online services. You'll also get GNN (Global Network Navigator®) for easy Internet browsing and FaxWorks™ with Voice communication software on CD.

Explore the entertainment world, access live chat lines and meet people from all over the globe, or converse with old friends and family! Reference early releases of publications such as *USA Today*, *People* and *BusinessWeek*. And get hooked into UseNet groups where people sharing common interests meet online for worldwide conversations and to exchange information. Access areas where you can download a million files of all types — free of charge! And for the world's most expert online technical support assistance, you can contact the Gateway 2000 BBS.

To get an edge on Roger, Mitch enters the ESPN site and talks to ski pros about all the latest slalom tips. But he's sidetracked and finds evidence that Uncle George donated his dairy heist money to the research of high-nutrition milk production. "Oh, just wait till I tell Marge! She's been wondering who gave her that anonymous grant money! And now that I'm online, there's nothin' stopping me from taking over as family know-it-all. See ya' Rog!"

Meanwhile Roger readies himself for Holstein Hill, Mt. Bovine's most treacherous downhill slope. He poises, glances around to make sure everyone's looking and ... "Hey! Where did they all go?! What *are* they doing? How could those Gateway computers possibly be more entertaining or informative than *me*? I'd better head back to Mt. Bovine to check out my competition!"

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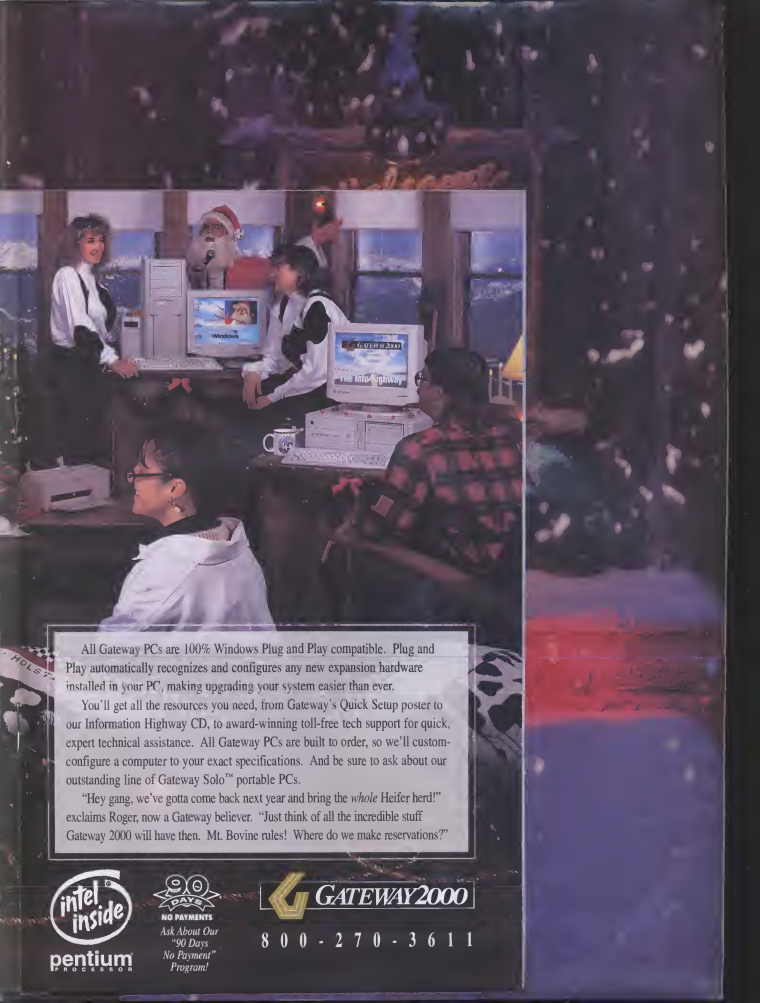
"Hey Heifers! The roads are open. Let's go!" But Roger stops — in awe at the sight of the whole Heifer family happily computing on Gateway 2000® PCs. "Holy cow! You must be joking!" laughs George. "This is the coolest holiday this family's ever had! There's something for everyone here. Plus, Gateway gives you all the resources and technology to make initial start up, daily maintenance, and upgrading for the future easy. Boy, does that ever add to the overall value of a computer! And Gateway 2000 even has a 90-Day No Payment Program."

Value-Packed Pentium-Processors PCs For Today And Tomorrow!

Nearly all Gateway 2000 PCs include the Intel® Pentium® processor. All your applications will run better and faster with the extra oomph of this processor, and you'll be prepared to handle the new applications of the future!

Gateway 2000: Making Computing Easy For Everyone

Microsoft®'s new operating system makes working on your computer easier than ever. And all Gateway 2000 keyboards are designed with three keys specifically for Windows 95. The included MS IntelliType and IntelliPoint software will turn your keyboard and mouse into powerful, personalized computing tools.



All Gateway PCs are 100% Windows Plug and Play compatible. Plug and Play automatically recognizes and configures any new expansion hardware installed in your PC, making upgrading your system easier than ever.

You'll get all the resources you need, from Gateway's Quick Setup poster to our Information Highway CD, to award-winning toll-free tech support for quick, expert technical assistance. All Gateway PCs are built to order, so we'll custom-configure a computer to your exact specifications. And be sure to ask about our outstanding line of Gateway Solo™ portable PCs.

"Hey gang, we've gotta come back next year and bring the *whole* Heifer herd!" exclaims Roger, now a Gateway believer. "Just think of all the incredible stuff Gateway 2000 will have then. Mt. Bovine rules! Where do we make reservations?"

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90 DAYS NO PAYMENTS

Ask About Our "90 Days No Payment" Program!

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Gateway 2000® Family PC™ Systems

P5-75 FAMILY PC

- Intel® 75MHz Pentium® Processor
- 8MB EDO Performance-Enhanced Memory
- **850MB 10ms DMA Mode 1 EIDE Hard Drive**
- PCI Enhanced IDE Interface
- **64-Bit PCI Graphics Accelerator w/ 1MB DRAM**
- 4X EIDE CD-ROM
- 16-Bit Gateway Sound Card
- **Altec™ ACS-40 Speakers**
- TelePath® 14.4 Fax/Modem Communication Center
- **Gateway Information Highway CD**
- 3.5" Diskette Drive
- 14" .28dp CrystalScan® Monitor
- 7-Bay Desktop Case
- **104+ Keyboard** & MS Mouse 2.0
- **Microsoft® Windows® 95**
- **Generations II Software Collection**
- **Gateway Gold™ Service & Support**

$1799

P5-100 FAMILY PC

- Intel 100MHz Pentium Processor
- 8MB EDO Performance-Enhanced Memory
- **850MB 10ms DMA Mode 1 EIDE Hard Drive**
- PCI Enhanced IDE Interface
- **64-Bit PCI Graphics Accelerator w/ 2MB DRAM**
- 6X EIDE CD ROM
- 16-Bit Gateway Sound Card
- **Altec ACS-40 Speakers**
- **TelePath 28.8 Fax/Modem Communication Center**
- **Gateway Information Highway CD**
- 3.5" Diskette Drive
- 15" .28dp CrystalScanColor Monitor
- 7-Bay Desktop Case
- **104+ Keyboard** & MS Mouse 2.0
- **MS Windows 95**
- **Generations II Software Collection**
- **Gateway Gold Service & Support**

$2199

P5-120 FAMILY PC

- Intel 120MHz Pentium Processor
- 8MB EDO Performance-Enhanced Memory
- **1.62GB 9ms DMA Mode 2 EIDE Hard Drive**
- PCI Enhanced IDE Interface
- **64-Bit PCI Graphics Accelerator w/ 2MB DRAM**
- 6X EIDE CD-ROM
- 16-Bit Gateway Sound Card
- **Altec ACS-40 Speakers**
- **TelePath 28.8 Fax/Modem Communication Center**
- **Gateway Information Highway CD**
- 3.5" Diskette Drive
- **15" .26dp Vivitron™ Color Monitor**
- 7-Bay Desktop Case
- **104+ Keyboard** & MS Mouse 2.0
- **MS Windows 95**
- **Generations II Software Collection**
- **Gateway Gold Service & Support**

$2499

Generations II
SOFTWARE COLLECTION

■ Microsoft® Encarta® 96 ■ MS Cinemania® 96 ■ MS Julia Child: Home-Cooking with Master Chefs ■ MS Bob™, for Gateway 2000 ■ MS Works 95 ■ MS Publisher 95 ■ MS Money 4.0 ■ MS Golf ■ MS Music Central™ 96 ■ MS CD Sampler ■ MS Entertainment Packs 1-4 (31 fun games!) ■ Cash Graf Home Office Plus™ ■ Mayo Clinic® Family Health Book ■ Mediamatics Arcade™ MPEG Player ■ The Masters®: Interactive Journey Through Its 60-Year History, for MPEG

Gateway 2000 Manufacturing, North Sioux City, South Dakota is ISO 9002 Certified.

ISO 9002 CERTIFIED

Gateway 2000® Family PC™ Systems

HOLIDAY XL

- Intel 133MHz Pentium Processor
- 16MB EDO Performance-Enhanced Memory
- 256K Pipelined Burst Cache
- **1.62GB 9ms DMA Mode 2 EIDE Hard Drive**
- PCI Enhanced IDE Interface
- **Matrox® MGA™ 2MB WRAM Graphics Accelerator**
- **6X EIDE CD-ROM Drive**
- 16-Bit Ensoniq® Wavetable Sound Card
- **Altec ACS-40 Speakers w/ ACS-250 Subwoofer**
- **TelePath 28.8 Fax/Modem Communication Center**
- **Gateway Information Highway CD**
- 3.5" Diskette Drive
- 17" .28dp CrystalScan Color Monitor
- 9-Bay Tower Case
- **104+ Keyboard**
- MS Mouse 2.0
- **MS Windows 95**
- **Gateway's Ultimate Software Bundle**
- **Gateway Gold Premium Service**

$3699

Ultimate Software Bundle!

Call today and ask how you can get both Generations II Software Collection and Microsoft Office 95, Professional Edition pre-installed on any Gateway 2000 desktop PC, along with Gravis GamePad™ — all for an unbeatable value!*

** MS Office 95, Professional Edition includes Word, Excel, PowerPoint® presentation graphics program and Schedule+, along with MS Access database and Bookshelf® '95 shipped upon release from Microsoft ($10 shipping fee)*

GATEWAY GOLD™ SERVICE & SUPPORT

Service When You Need It

- Toll-Free Technical Support 24 Hours A Day, 7 Days A Week
- Free Software Technical Support for all Gateway-provided operating systems & applications (includes Windows 95 Support)
- Industry-Leading Response Times For Toll-Free Support
- 1-Year On-Site Service Agreement**
- Next Business Day Response On-Site Service†
- Extended On-Site Service Hours (6a.m.-10p.m. Monday-Friday, 8a.m.-5p.m. Saturdays)
- Scheduled On-Site Service (2-hour appointment window)
- 3-Year Parts Only Limited Warranty**
- Express Replacement Parts Delivery
- Club Gateway™ Membership
- *GW2k™: Gateway Magazine*
- Gateway Bulletin Board (BBS) Service
- Automated FaxBack Service

†Pending parts delivery.
***Call or write us for a free copy of our warranty or on-site service agreement.*

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Professional Systems

P5-75

- Intel® 75MHz Pentium® Processor
- 8MB EDO Performance-Enhanced Memory
- **850MB 10ms DMA Mode 1 EIDE Hard Drive**
- PCI Enhanced IDE Interface
- **64-Bit PCI Graphics Accelerator w/ 1MB DRAM**
- 4X EIDE CD-ROM Drive
- 3.5" Diskette Drive
- 14" .28dp CrystalScan® Color Monitor
- 7-Bay Desktop Case
- **104+ Keyboard** & MS Mouse 2.0
- **MS Windows® 95**
- **MS Works 95**
- **Gateway Gold™ Service & Support**

$1599

P5-100

- Intel 100MHz Pentium Processor
- 8MB DRAM
- 256K Pipelined Burst Cache
- **1GB 10ms DMA Mode 2 EIDE Hard Drive**
- PCI Enhanced IDE Interface
- **64-Bit PCI Graphics Accelerator w/ 1MB DRAM**
- 4X EIDE CD-ROM Drive
- 3.5" Diskette Drive
- **15" .28dp CrystalScan Color Monitor**
- 7-Bay Desktop Case
- **104+ Keyboard** & MS Mouse 2.0
- **MS Windows 95**
- **MS Office 95, Professional Edition***
- **Gateway Gold Service & Support**

$1999

Professional Systems

P5-120

- Intel 120MHz Pentium Processor
- 16MB DRAM
- 256K Pipelined Burst Cache
- **1GB 10ms DMA Mode 2 EIDE Hard Drive**
- PCI Enhanced IDE Interface
- **64-Bit PCI Graphics Accelerator w/ 2MB DRAM**
- 4X EIDE CD-ROM Drive
- 3.5" Diskette Drive
- **15" .26dp Vivitron™ Color Monitor**
- 7-Bay Desktop Case
- **104+ Keyboard** & MS Mouse 2.0
- **MS Windows 95**
- **MS Office 95, Professional Edition***
- **Gateway Gold Service & Support**

$2499

P5-133

- Intel 133MHz Pentium Processor
- 16MB DRAM
- 256K Pipelined Burst Cache
- **1.62GB 9ms DMA Mode 2 EIDE Hard Drive**
- PCI Enhanced IDE Interface
- **64-Bit PCI Graphics Accelerator w/ 2MB DRAM**
- 4X EIDE CD-ROM Drive
- 3.5" Diskette Drive
- **15" .26dp Vivitron Color Monitor**
- 7-Bay Desktop Case
- **104+ Keyboard** & MS Mouse 2.0
- **MS Windows 95**
- **MS Office 95, Professional Edition***
- **Gateway Gold Service & Support**

$2799

Service Options

Gateway Gold Premium

- Extended Three-Year On-Site Agreement**
- Priority 800 Number For Access To Technical Experts **$99**

Gateway Gold Á La Carte

- On-Site System Installation
- On-Site Upgrade/Add-On Installation
- Hardware and Software Customization/ Integration

Ask your sales representative for details and pricing information.

*** Call or write us for a free copy of our on-site agreement.*

CALL TODAY! **for information on Gateway 2000's new Intel Pentium Pro processor-based systems.**

** MS Office 95, Professional Edition includes Word, Excel, PowerPoint® presentation graphics program, Schedule+, along with MS Access® database and Bookshelf® 95 shipped upon release from Microsoft ($10 shipping fee)*

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Get All The Sights and Sounds of

Incredible holiday extras from Gateway 2000, all at outstanding values. All peripherals and software sold only with the purchase of a Gateway system.

Multimedia

Audio Multimedia Kits

Everything you need to add multimedia to a Gateway 2000® PC. Choose a Gateway 16-bit CD-quality sound card or an Ensoniq® Soundscape™ 16-bit wavetable sound card. Both are Sound Blaster™ compatible and include two Altec™ ACS-40 speakers.

$95 *(Gateway 16-bit sound card and ACS-40 speakers)*

$115 *(Ensoniq Soundscape 16-bit wavetable sound card and ACS-40 speakers)*

Multimedia Speaker Upgrades

Upgrade the speakers in any Gateway multimedia kit by adding the all-new Altec Lansing ACS-250 subwoofer to provide up to 40 watts of additional bass.

$75 *(upgrade from systems which include Altec ACS-40 speakers)*

The Dolby Pro-Logic Surround Sound ACS-400 speaker system will make your CD audio multimedia applications come alive with theater-like surround sound. Complete with two Altec Lansing ACS-400 satellites and ACS-250 subwoofer.

$120 *(upgrade from systems which include Altec ACS-40 speakers)*

6X EIDE CD-ROM Drive

Access your software applications and documents faster than ever with this 6X EIDE CD-ROM drive from Gateway 2000 giving you 900KB/second data transfer rate and 214ms average access time. Supports multisession photo CDs and XA format, enabling simultaneous audio and data with additional hardware.

$100 *(upgrade from systems with 4X CD-ROM drive)*

4X Three-CD Changer

Enhance the value and usefulness of your PC with the 4X three-CD changer. It supports multisession photo CDs and XA format, enabling simultaneous audio and data with additional hardware. You'll have access to three times the amount of information of a regular CD-ROM drive.

$100 *(upgrade from 4X CD-ROM drive)*

CH FlightStick

The CH Flightstick is engineered specifically to look and feel like a jet joy stick. Features advanced throttle control, contour jet grip with two fire buttons and seven-foot cable. **$35**

Gateway accepts most major credit cards and C.O.D. terms, with net 30-day terms and leasing options available to qualified commercial customers. You can also apply for the Gateway 2000 DuoLine™ MasterCard® card, issued by Dial National Bank, Des Moines, Iowa.

90 DAYS
NO PAYMENTS

Ask About Our "90 Days No Payment" Program!

Gateway 2000 Extras!

Software

HOT PRICE **10th Anniversary Software Bundle**

Our special 10th Anniversary bundle includes BioForge™, Wing Commander III: Heart of the Tiger, Magic Carpet II: The Netherworlds, and a Gateway 2000 10th Anniversary T-shirt! **$49**

(BioForge may not be suitable for younger children.)

NEW **Kids Backpack™ II**

Our new Kid's BackPack II combines learning and fun in a software package specifically designed for kids. Includes What is a Bellybutton?; The Tale of Peter Rabbit; Cinderella; The Original Fairy Tale; Freddi Fish™ and the Case of the Missing Kelp Seeds™; and Pocahontas Reading Adventure, along with a Gateway cow-spotted backpack! **$59**

Starter Pack: The Sequel

A new twist on our favorite software bundle! Includes Tuneland™, Cyberia™, SimCity, Rand McNally TripMaker™, Hometime® Weekend Home Projects, 70 Million Households Phone Book, Consumer Survival Kit, and The 7th Guest™. Also includes 12-CD flip case holder. **$99**

Sports Pack

Includes Unnecessary Roughness '95™, Hardball 4™, FIFA International Soccer, PGA Tour® Golf, NHL® Hockey '95, and NASCAR® Racing. Also includes Gravis GamePad™ and 20-disc storage rack. **$99**

Flight Pack

Includes TFX™: Tactical Fighter Experiment, Aces Over Europe, Maximum Comanche®, Strike Commander, Privateer, Wing Commander™ Armada, and Warplanes. You also get a joystick and 20-disc storage rack. **$99**

Gateway's Ultimate Software Bundle:
MS Office 95, Professional Edition & Generations II

Call today and ask how you can get both Microsoft Office 95, Professional Edition and Gateway 2000's Generations II Software Collection pre-installed on any Gateway 2000 desktop PC, along with Gravis GamePad® — all for an unbeatable value!

Communications & Storage

TelePath® 28.8 Fax/Modem Communication Center

Internal fax/modem, 28,800bps modem, V.34, with 28,800bps fax capability. Sends and receives data and faxes, and also includes full voice mail capabilities. Includes the Gateway Information Highway CD giving you trial memberships to CompuServe®, Prodigy®, America Online®, Reuter's Money Network online services, and GNN® for easy Internet browsing. **$149** *(Upgrade from TelePath 14.4 to 28.8 Fax/Modem $70)*

Colorado Memory Systems® Jumbo™ 1400 TBU

CMS Jumbo 1400 internal tape backup unit with up to 1.36GB compressed (680MB native) storage capacity per tape. Comes with MS Windows® and DOS® software, one tape and cable. **$199**

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More Gateway Ways To Make

Monitors

Gateway Vivitron™ Color Monitors

Non-interlaced color monitor using Sony® Trinitron® tube technology, capable of 1280 x 1024 resolution.

Gateway 15-Inch Vivitron Color Monitor, .26 dot pitch
Upgrade from a 14" CrystalScan® to 15" Vivitron monitor **$160**
Upgrade from a 15" CrystalScan to 15" Vivitron monitor **$75**

Gateway 17-Inch Vivitron Color Monitor, .26 dot pitch
Upgrade from a 15" CrystalScan to 17" Vivitron monitor **$365**
Upgrade from a 15" Vivitron to 17" Vivitron monitor **$290**

Gateway CrystalScan Color Monitor

Non-interlaced color monitor capable of 1280 x 1024 resolution.

Gateway 15-Inch CrystalScan Color Monitor, .28 dot pitch
Upgrade from a 14" CrystalScan to 15" CrystalScan monitor **$85**

Gateway 17-Inch CrystalScan Color Monitor, .28 dot pitch
Upgrade from a 15" CrystalScan to 17" CrystalScan monitor **$265**

(Upgrade prices good only at time of system purchase.)

Networking

3Com Ethernet Adapters

High-performance 16-bit Ethernet cards.

16-bit Triple Media Card with BNC, AUI and RJ-45 connectors **$109**

16-bit Card with only RJ-45 connector **$89**

SMC PCI Ethernet Adapter

32-bit card with both RJ-45 and BNC connectors **$139**

Printers

Epson® Stylus™ IIS Color Ink Jet Printer

Photo quality printing in color and black-and-white with 720dpi on high-quality glossy paper. Great for home use, this printer features easy-to-use drivers compatible with virtually all MS applications. **$339**

Epson Stylus™ II Color Ink Jet Printer

Perfect for the small business or home office, providing vivid color and crisp black-and-white printing at 720dpi on plain paper. Plus, it's quiet and compact. **$449**

Epson ActionLaser 1400 Printer

Features a high-performance RISC-based processor optimized to perform operations in fewer clock cycles than a standard CISC, as well as 600 x 600dpi with edge smoothing technology. **$499**

Lexmark Optra™ 12R

Corporate-quality printer with networking capabilities. Features a 25MHz RISC processor, 2MB memory, true 1200 x 1200 dpi, and prints 12ppm. **$1299**

Epson ActionPrinter 3260

This letter-quality, dot-matrix printer prints at 360 x 360dpi with a choice of 10 built-in typefaces and can be upgraded to color. **$209**

All printers include parallel cable.

Call for additional printer options!

Your Holidays Brighter!

Software Upgrades

Gateway's following special Microsoft Windows 95 and Office 95 Professional offers are available to existing Gateway 2000 customers only, as upgrades to DOS, Windows or MS Office.

Microsoft Windows® 95 Upgrade

Only available to our valued customers. Microsoft's new operating system will make your system faster and easier to use, and you'll get Gateway 2000 toll-free technical support for Windows 95 installation, configuration, and problem resolution. Order your copy today! **$94** *(On diskettes $104)*

Microsoft Office 95 Professional Upgrade

Microsoft Office 95, Professional Edition is designed to work specifically with the Windows 95 operating system, and includes 32-bit versions of Word, Excel, Schedule+, PowerPoint™ presentation graphics, Access® database, and Bookshelf® 95 on CD. **$264**

Windows 95 & Office 95 Professional Upgrade

For an unbeatable combination value, get both MS Windows 95 and MS Office 95, Professional Edition. Microsoft Windows 95 operating system will make your system faster and easier to use. And you'll get Gateway 2000 toll-free technical support for Windows 95 installation, configuration, and problem resolution. Microsoft Office 95, Professional Edition is designed to work specifically with the Windows 95 operating system, and includes 32-bit versions of Word, Excel, Schedule+, PowerPoint presentation graphics, Access® database, and Bookshelf 95 on CD. **$349**

Service & Support

Gateway Gold™ Premium service and support is available to all new customers as an upgrade to Gateway Gold standard with all Gateway desktop systems. If you are already a Gateway customer and you purchased your Gateway computer on or after September 1, 1994, you can also upgrade to the Gateway Gold Premium service option for $99.

Gateway Gold Premium

- Extended Three-Year On-Site Agreement
- Priority 800 Number For Access To Technical Experts **$99**

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Portables

GATEWAY SOLO™

- Active Matrix Color Display
- Intel® Pentium® Processor
- 256K L2 Pipelined Burst Cache
- 1MB Video RAM
- Lithium-ion Battery & AC Pack
- 2 PCMCIA Type II, or 1 Type III Slots
- EZ Pad™ Pointing Device
- Removable Hard Drive
- 3.5" Modular Floppy Drive
- Integrated 16-Bit Sound with Stereo Speakers
- 86-Key Keyboard
- Parallel, Serial, Keyboard, Mouse, VGA & PS/2® Ports
- Built-In Mic, Headphone and Line-In Jacks and External Volume Control Dial
- Starting at 5.6 Lbs.*
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- Extra Battery
- 28.8 PCMCIA Fax/Modem
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pentium PROCESSOR

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How can I reach the *PC Computing* editors? Drop us e-mail via the Internet (72241.1724@compuserve.com) or CompuServe (72241,1724), or log on to PC Contact to post a public message (see page 366 in "I-Way Patrol" for details about logging on). You can also fax us at (415) 578-7059, or mail your comments to *PC Computing*, 950 Tower Lane, 19th Floor, Foster City, CA 94404. To be considered for publication, your letter must include your full name and address, and a daytime phone number.

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What downloads are you offering, and where can I find them? You have several options: Log on to CompuServe and type Go PC/Contact to enter our own *PC Computing* forums; visit our home page on the World Wide Web, at http://www.zdnet.com/~pccomp, for freeware, shareware, Net apps, and more; or check out Rich Schwerin's I-Way Patrol (page 364) for a printed list of cool downloads.

It's holiday shopping time. What can you buy for the gamer, traveler, or person who has everything? This month's Holiday Gift Guide (page 209) and Soho section (page 355) cover the gift-giving gamut.

From the Publisher

Thanks a Million

Congratulations. We have an announcement to make, and we couldn't be happier. It's all thanks to you. As of January 1996, *PC Computing* will reach more than 1 million readers. This smashes all previous circulation-growth records by a huge margin—no other computer magazine has grown farther faster in the history of publishing. We reached this pinnacle in seven and a half years—two years faster than the previous record.

And there's more good news. One of the largest syndicated research projects in the United States, IntelliQuest's "CIMS v2.0 Business Influencer Study," recently looked at the readership of most of the major computer, general-interest or consumer, and business magazines in the nation. We're pleased to report that while *PC Computing*'s paid circulation was skyrocketing, the quality of its readership stayed extraordinarily high.

PCC Live: Come visit our hot new Web sites.

Readership Among the five computer publications that reach the most readers in the "Business Influencer Study," *PC Computing* has the highest composition of readers who are advanced or expert computer users; give more advice than they receive; and plan to buy PCs, servers, peripherals, and printers. Among the 99 publications IntelliQuest studied, *PC Computing* ranked No. 3 overall, and No. 1 among all non-Macintosh PC and business publications for the composition of recipients who read the magazine regularly (at least three out of four issues), read 75 percent or more of the magazine, and examine computer advertisements extremely or very closely. In other words, you're the best.

We don't take lightly our responsibility of being a primary source of product information. Realizing that our editorial approach has struck a nerve in corporate America, we will continue to deliver the most accessible and vital product information in our distinctive way—by highlighting usability findings from one of the largest and most respected usability labs in the publishing business, and with trademarked devices like Decision Maker tables, The A-List, and Crossroads.

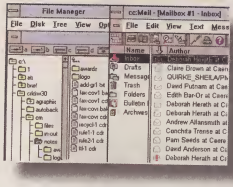
PCC Online We don't want to follow the industry; we want to lead it. And we'll continue to stay ahead of the curve by giving you both the best print and the best electronic version of any computer magazine.

Taking the reins of our electronic ventures is Technical Director Adam Meyerson, who will continue to oversee our Usability and Performance Labs. Starting with the January issue, we'll replace this column with Meyerson's detailed guide to our electronic activities on the Web, America Online, CompuServe, and Microsoft Network.

We'd like you to think of PCC Online as your premium electronic channel. We'll provide daily updates on the hottest free software, the coolest Web sites, cutting-edge–technology demos, exclusive maps, and exciting surprises—all in a new, multimedia-rich format. And as always, our editors will deliver expert buying and productivity-enhancing advice.

Over the next few months we'll be revamping our online sites and adding a few new ones. And a slick new design is under way. Tune us in at http://www.zdnet.com/~pccomp.

The needle.



The haystack.

The magnet.

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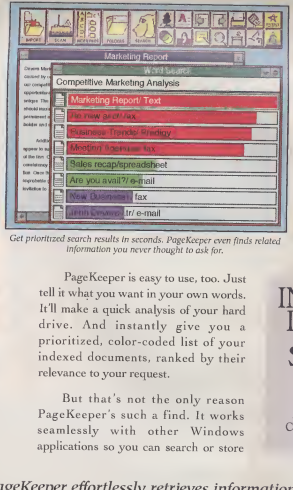
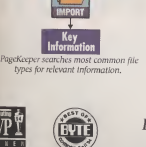


Get prioritized search results in seconds. PageKeeper even finds related information you never thought to ask for.



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Circle 262 on reader service card.

There I was at my computer, just me, my report, and the 3 databases I was working with, well,

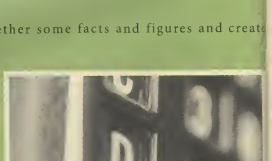
not really working because I was pretty much just sitting there letting out heavy sighs between

my cursing, which is how anyone would react when faced with 1400 pages of documentation

How I spent my day getting nothing done, unless you count the 11 trips to the vending machine.

to sift through when all you wanted to do was pull together some facts and figures and create

some kind of meaningful report. So the fact that I



was getting nothing done made me edgy, which

meant a trip to the vending machine. D4. Cheese popcorn. And when 7 o'clock rolled around

I had no report, no time, and a dozen empty popcorn bags on my desk. Nice day, huh

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Kodak's patented algorithm preserves sharpness and enables the DC40 camera to store 48 high-resolution images.

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Flash:	4 to 9 feet
Batteries:	4 AA lithium

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Microsoft Network Monopoly Game • What's Newt • Afraid to Upgrade?

MICROSOFT'S FAUX-MONOPOLISTIC STRATEGY

MSN: The Untold Story?

Redmond, Washington, last spring (one Microserf to another): "Hey, I have a great idea. Unbundle the Internet part of Microsoft Network, package it with a bunch of fluff, and sell it for an extra 40 bucks. Then, after thousands of people have paid to get it, give it away to anyone who asks, and invite everyone who buys Windows 95 to use it. After they've spent their time installing it, break the news that we haven't reserved enough phone numbers to make it available, except in a few markets. Instead of looking like monopolists about to take over the online market, we'll look like idiots who don't know what we're doing."

JOHN M. BAKER
VIA MICROSOFT NETWORK

A Documented Fan

I liked your excellent October issue. I would have paid twice the cover price for the undocumented tips ("Undocumented Secrets," page 196). Using the File Type tab to handle multiple associations will be a big productivity boost. Thanks!

T. RICARDO KINNEY
VIA MICROSOFT NETWORK

You Can Quote Me

I just received the October issue. As a usability tester, I was delighted to find my quote in the feature "Plug and Play Exposed" (page 198). The story doesn't reflect the amount of work and care that went into the information provided. It was truly an educational experience.

JAY DUNGAN
VIA AMERICA ONLINE

Plug and Pay More?

In "Plug and Play Exposed," you do not discuss the higher cost of Plug and Play peripherals. Why would people want to pay higher prices for peripherals that might not be easy to install when they can buy a cheap peripheral and pay a technician to perform the whole installation at a comparable cost? Until the cost of Plug and Play peripherals becomes competitive with that of regular peripherals, I don't see Plug and Play hardware taking off.

PAUL STAFFORD
VIA AMERICA ONLINE

IF SOMEONE gives you the choice between old hardware that's hard to install and new hardware that's easy to install, we recommend the new stuff. The newer, Plug and Play hardware costs the same or less, and it might soon be your only choice.

HotList: Misfire . . .

I was shocked and dismayed by the back page of your October issue (HotList, page 538). While I'm not a member of the Christian Coalition, I am a member of the National Rifle Association (NRA), and I find your comments ignorant and offensive. The NRA is open to all people who support the preservation of Second Amendment rights, regardless of someone's political affiliation, and—even more important—regardless of someone's sex, race, color, or creed. To imply that this organization is racist is not only false, but also insulting to all of its members.

CRIS CALHOUN
VIA COMPUSERVE

. . . Or On Target?

Wow. I just read Hotlist in the October issue, and it was hilarious. I can't think of a better target than Newt Gingrich and his idiot friends. But please tell me, how can you let Penn Jillette go and then turn around and print stuff like this?

DAVE COLLETT
VIA COMPUSERVE

Upgrading on the Edge

I enjoy reading the letters to the editor in *PC Computing*, but I do not understand the genuine fear that some readers have regarding upgrades. God created tape backup and portable hard drives so we could repress our fears of the future and indulge ourselves in our instinctive curiosities. Live dangerously—you know you want to!

JOHN W. BROOKS
VIA PRODIGY

Web Clog: Friend or Foe?

The sky is falling! Paul Somerson's October column adopts the Chicken Little attitude common among many Internet snobs ("Weblock," page 71). Face it—commercial activity and increased usage are the best things that ever happened to the Internet. I've used it for years, and it has always been interesting. Now it's cool.

JAY SQUIRES
VIA THE INTERNET

KINDA MISSED THE POINT, didn't you, Jay? What we said was having all those people on the Net is terrific. But not when they're all trying to gain access to the same server that you are on.

Mail BY PHONE, FAX, NET & POST:

Shareware Scoop · Censorship Unlimited · Wasted Warp

Digital Stocking Stuffer

Let's not be too hasty in throwing away those analog modems ("Ultrafast Digital Modems," October, page 205). Why? Because Microsoft hasn't released ISDN device drivers yet. If Microsoft delivers as promised on the device drivers, then a digital modem would make a great stocking stuffer at Christmas. Mom, I hope you're reading this!

KEVIN S. BELMONT
VIA MICROSOFT NETWORK

Free, for a Fee

Please stop putting shareware programs in your Free Stuff listing. Shareware is reasonable, but it's not free. Using this philosophy, one could say your magazine is free, too—as long as you read it by the newsstand.

STEVE LUNDWALL
VIA THE INTERNET

NOT QUITE. Shareware is not for sale. It's freely available, and you're not obligated to pay. But it works under the honor system: If you use an application, you're expected to make a small donation ($5 to $15).

Censorship's Bottom Line

Should we censor the Net? Some say no. But fundamental to the success of any society is its value system—what we believe sets the limits around our social behavior. To censor is to set limits. Our society is already falling down around us because we've been reluctant to set limits. We've been reluctant to protect anything. It has to stop somewhere, or it will stop at the bottom.

CHARLES B. WHATLEY
VIA COMPUSERVE

DON'T ** THE I-WAY.** Who defines the moral standards that censorship reflects, and how can those standards be enforced on a global scale? Just because an idea plays in Paris, doesn't mean it'll play in Peoria. A better approach is to use self-policing products like SurfWatch (look for a review in an upcoming issue). For now, cover your eyes, Charles. Most of the online community wants to be—and will be—censorship-free.

Win with Windows 95

Anyone who hasn't bought Windows 95 because they think first releases never work is a loser, and Bill Gates and I are winners. If you're interested in a full version of OS/2 Warp, my copy is out front waiting for the trash collector, and my Macintosh is being used to keep old newspapers from blowing away.

JEFF MILLARD
VIA COMPUSERVE

Shareware Does DMF

In your Windows 95 Superguide (October, page 137), you tell us that "at present, no one has released a disk-formatting utility that can duplicate these 2MB DMF disks" (page 144). True, there are no commercial versions. But there are good, serviceable, and inexpensive shareware programs that do the trick.

ANDREW L. BOND
VIA MICROSOFT NETWORK

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Before all your hard work goes down the drain.

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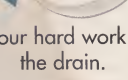

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and browsing the Internet

all at the same time.

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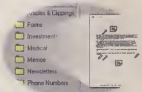

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AND ONE OF THEM is now online at *PC Computing!* It's called wima9522.zip, and you can find it on all of our online sites (see page 366).

PC Computing User's Manual

Your September issue was very useful for setting up Windows 95. The instructions that came with the program were not at all adequate. Thank you for doing Microsoft's job.

BILL MILLER
NEW YORK, NEW YORK

It's a Windows World

Ed Bott's reply to Mark Papsun in the September issue (Mail, page 25), hits the nail on the head. Like Papsun, I'd love to have up-to-date OS/2 versions of my favorite applications. IBM had a chance in the late '80s to make that happen. Unfortunately, I think it's too late now to take advantage of that opportunity. OS/2 diehards like Papsun and me will always have it on our desktops—but corporate America, including software developers and users, will continue to invest in Windows.

PETER DONIS
VIA COMPUSERVE

Net Debt

We're not hooked up to the Net yet. Why? Because the price is not right. We are a family of four. With rent, food, and other expenses, it hurts our pocketbooks to get online. A modem, separate phone line, and online-service membership are still not affordable for us.

STEVEN WONG
VIA THE INTERNET

IF YOU NEED IT, IT WILL COME. Many families don't buy cars for the same reason, but you wouldn't argue against their affordability. Truth be told, you don't need a second phone line, and many systems ship now with fax modems and an online membership of some sort (which costs a measly $10 or so a month).

For the Record

In October's Working Smarter ("Banish the World Wide Waste of Time," page 214), we incorrectly list the commands for the automatic mailer at MIT. The message for mail-server@rtfm.mit.edu should read:

send usenet/news.answers/active-news-groups/part1

send usenet/news.answers/active-news-groups/part2

In our Network Superguide we printed a flawed output sample for Hewlett-Packard's DeskJet 1600CM ("Network Color Printers," November, page 174). While the colors are true to the printer's actual output quality, the striations that appear in the image are not the fault of the printer.

WHAT'S ON YOUR THINKPAD? Send your thoughts about this and other subjects to Mail, *PC Computing*, 950 Tower Lane, 19th Floor, Foster City, CA 94404; fax: (415) 578-7059; Internet: 72241.1724@compuserve.com; CompuServe: 72241,1724. Letters are subject to editing for length and clarity.

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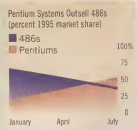
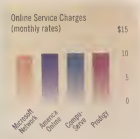


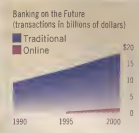
SOURCE: COMPUTER INTELLIGENCE INFOCORP

486 RIP: Say good-bye to the 486 and hello to the Pentium, which started outselling its predecessor between June and July of this year.



SOURCES: ONLINE SERVICES

In Line: Since Microsoft Network's debut, once-disparate rates for basic online services—e-mail, chat groups, Internet access, and news—are now remarkably similar.



SOURCE: THE TOWER GROUP

Banking Forecast: While both Microsoft and Intuit have announced big online banking ventures, most people still visit bank tellers.

NEW DIMENSIONS

Welcome To the Third Level

What fun is it to blow a killer robot out of a Saturn mine shaft if you can't see the grimace on his twisted, tinny face? And who wants to drive in slow motion in the Indianapolis 500?

Now you can add new depth and speed to your PC games and get sucked into a richly textured world of realistic smoke and flames, robot guts, flying, diving, and 360-degree spins. Even business applications will start to see the effects of 3-D—and you won't have to wear those funny-looking cellophane glasses.

3-D is on its way to the Windows 95 desktop, bringing with it the excitement and visual realism of today's most advanced arcade games. Step in and walk around, or—more likely—run, fly, and drive around at dizzying speeds. Your PC display will look more like a television than a computer.

A new 3-D programming interface, Direct 3-D for Windows 95, will wean PC game makers from their dependence on machine language and let them create faster and more realistic games than those for video-game play stations. It should also solve configuration problems. Interface and productivity programmers will take advantage of Direct 3-D to enhance usability and navigation clues in their wares as well.

This new technology raises the ante for processor speed and memory, but even the fastest Pentium can't match the potential of a machine with a dedicated 3-D graphics coprocessor. Dozens of component makers like 3Dlabs and Nvidia are designing 3-D controllers that will be used in a variety of video cards, sound boards, and other discrete add-in cards. Even then, don't try 3-D on anything slower than a 486.

Creative Labs' 3D Blaster and Diamond Multimedia's Diamond Edge 3D are two

Get Real: New 3-D PC hardware and software offer the excitement and visual realism of advanced arcade games.

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PHOTO ILLUSTRATION BY PETER ALAN GOULD. PHOTO: BAPHIS COURTESY OF SUPERSTOCK

Word 6.0's Prank Virus

early examples of the new breed of 3-D video accelerators that can make your PC feel like a video-arcade game. 3D Blaster is a $349 dedicated game display card with hardware-accelerated 3-D rasterization that has 640-by-480-resolution video with 16-bit color at 30 frames per second. Diamond Edge 3D—which costs $299 and up depending on configuration—adds a two-dimensional video controller and wavetable sound.

Both come bundled with various games made specifically for the hardware: EA/Bullfrog's Magic Carpet Plus, Mindscape's CyberSpeed, Papyrus Design Group's NASCAR Racing, Looking Glass Technologies' Flight Unlimited, Domark's Absolute Zero, and Interplay's Descent: Destination Saturn.

Gaming aside, 3-D is a boon for CAD and drawing programs too—as the latest edition of the CorelDraw suite demonstrates—but it might take a while to reach business-productivity applications. While 3-D spreadsheets and databases are the logical next step, the cost of adapting installed apps for 3-D will be too high for a while.

Widespread productivity applications for which 3-D does make sense are Web browsers. HotJava, a great example of this, can be downloaded for free from our online sites. (See page 366 for details.) The Web's layout is, after all, nothing if not multidimensional. And a third dimension could also do wonders for novice-user interfaces like Packard Bell's Navigator or Microsoft's Bob.

But first and foremost are games, games, games. And they've sure come a long way from Pong. MH

It's Not That Funny

Do your documents change to templates when you use the **Save As command** in Microsoft's Word 6.0? You may be a victim of what's been dubbed the **Prank Macro.** Because it doesn't cause crashes or data loss, the Prank Macro is merely annoying. Microsoft has a scanning tool to **detect and fix the problem.** The scanner is available from Microsoft's product support line at (206) 462-9673, Microsoft's Web site at http:\\www.microsoft.com\msoffice, and on most major online services. MH

Color Laser Printers

Color is everywhere, so why settle for black-and-white printed pages? Here are the least-expensive color laser printers we could find as of September 26, 1995.

Product	Price
QMS Laser Printer *QMS (800) 622-5546*	$4,999
Xerox Color Laser Printer *Insight (800) 998-8021*	$5,429
HP Color LaserJet *Bulldog Computer Products (800) 438-6039*	$5,925
Color LaserWriter 12/600 PS *Apple Computer (800) 776-2333*	$6,550
Tektronix Phaser 540 Plus *Tektronix (800) 835-6100*	$8,995

Reader Service Numbers: QMS *605*, Insight *606*, Bulldog Computer Products *607*, Apple Computer *608*, Tektronix *609*

RADAR: Looking Ahead to '96, Plus-Pack Cheap Shots

What's on the scope? If a blip is near or moving toward the middle of the radar screen, check it out. If it's moving off the screen, steer clear for now.

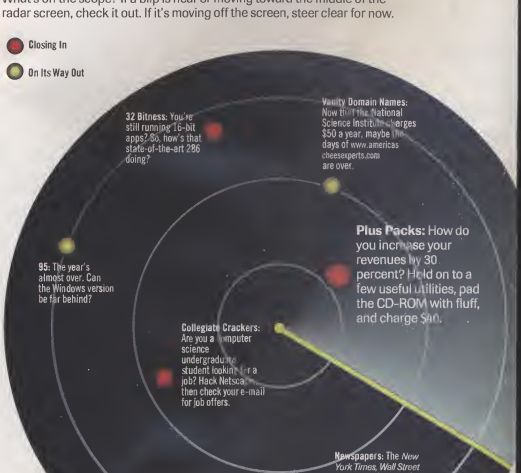


PHOTO ILLUSTRATION BY PETER ALAN GOULD; PHOTOGRAPHS COURTESY OF SUPERSTOCK

Presentations On the Tube

You've worked for weeks on that splashy new marketing presentation, but it quickly loses its luster on your portable's 9-inch display—especially if you're pitching to a crowd. You certainly can't lug around a 17- or 21-inch monitor, nor can you expect each site to have one that you can plug into. But chances are good that each site *will* have a TV. In fact, most will have a large TV with better-than-monitor resolution. But how do you get your presentation on TV? It's simple with TView's Presenter TView.

Presenter TView is a pocket-size device that weighs under 3 pounds and converts PC or Macintosh video signals to NTSC television signals. It supports up to 800-by-600-pixel resolution and splashes clear, sharp pictures onto any television screen. There's also a freeze button that holds frames on the screen while you work on a file or load an app on your portable. And for quick, onscreen annotations, TView throws in the Electronic Marker, a software tool that lets you easily make annotations and highlights with your mouse or pointing device. You can also make adjustments onscreen, pixel by pixel, for perfect images. **RS**

Presenter TView / TView / (800) 356-3963 / $395 est. street price / *Reader Service No. 611*

Head Start on the Inevitable

Unfortunately, with the year drawing to a close it's time to start thinking about taxes. Intuit's market-leading **TurboTax 1995 Head Start** edition analyzes your personal tax situation and suggests financial remedies to use before the end of the year. Small businesses can turn to **TurboTax for Business 1995,** which caters to sole proprietorships, corporations, S-corporations, and partnerships. In addition to all the necessary forms, you get advice, suggestions, help, and audit warnings, plus imports from QuickBooks and Quicken. **RS**

TurboTax 1995 Head Start and **TurboTax for Business 1995** / Intuit / (800) 695-7778 / $29 est. street price for 1995 Head Start edition, $65 est. street price for Business 1995 edition / *Reader Service No. 610*

WORDPERFECT 7 FOR WINDOWS 95

Perfecting Word Processing

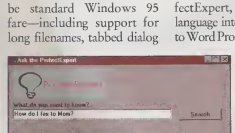
SNEAK PREVIEW

WordPerfect 7 for Windows 95 will finally hit the shelves in late 1995 or early 1996, joining Lotus's Word for Windows 95 as the only word processors to make the 32-bit jump.

While we can't tell you about every new feature in WordPerfect 7, our first impression based on early testing is that it doesn't contain many radical new features. Most of the enhancements will be standard Windows 95 fare—including support for long filenames, tabbed dialog boxes, and other operating system touch-ups.

A new feature of WordPerfect 7 is the Guidelines tool. It consists of horizontal and vertical lines in your document that define margins and indents. To change your settings, for example, click anywhere on the Guideline and drag it to the desired location.

Other new features, while welcome, aren't revolutionary. WordPerfect 7's new metaphor for online help, Ask the PerfectExpert, offers a natural-language interface that's similar to Word Pro 96's Ask the Expert and Word 95's AnswerWizard. WordPerfect 7's online help offers several choices, including walk-throughs of specific tasks and demonstrations, as well as features that actually perform some tasks for you.



Help Wanted: WordPerfect 7's Ask the PerfectExpert offers a natural-language system for online help that's similar to help functions featured in Lotus's WordPro 96 and Microsoft's Word 95.

If word processor vendors have their way, spell-checking will never be the same. WordPerfect 7 uses the same approach as Microsoft's Word 95. Misspell a word and you get a subtle signal as you type. In the version we tested, misspelled words are underlined to alert you of your error.

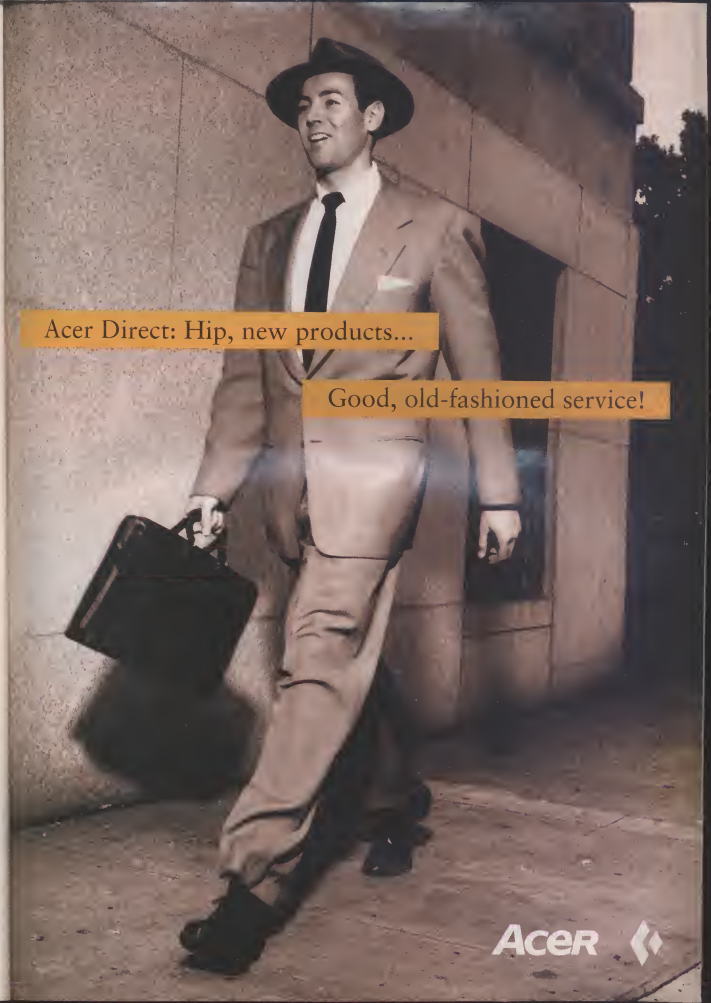
A popular trend in new applications is Internet support, and WordPerfect 7 is on the bandwagon. WordPerfect's Internet Publisher is built into WordPerfect 7, letting you create HTML documents without too much pain or suffering.

WordPerfect 7 for Windows 95 will be released by the beginning of next year in conjunction with PerfectOffice for Windows 95, which will include Windows 95 versions of Presentations, Quattro Pro, InfoCentral, Envoy, and GroupWise. **KKC**

WordPerfect 7 for Windows 95 / Novell / price not yet determined / (800) 321-4566 / *Reader Service No. 612*

Contributors to Pulse: KYLA K. CARLSON, JAMES OLIVER CURY, MIKE HOGAN, JACK LYON, *and* RICH SCHWERIN. *Edited by* WENDY TAYLOR

PHOTOGRAPH BY ARNOLD TIDSE JR.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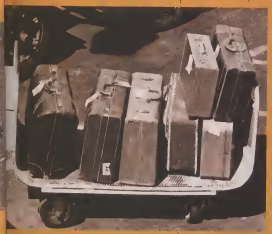

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Q: Desktop or Lap

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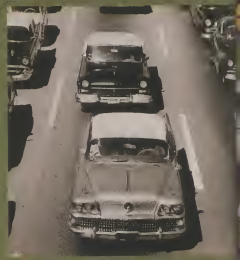

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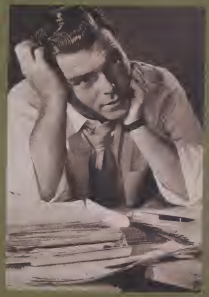

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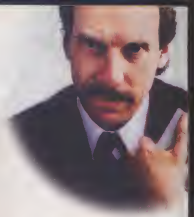
Circle 307 on reader service card.

Paul Somerson



Free-Mail

Hurry—get your banker on the phone. Cash in your bonds. The new gold rush is on. Have you made a fortune on the Internet yet? No? Geez, just about everyone else has. The rubes are lining up to pay hundreds of millions for nearly empty shells. Investors are ponying up billions for companies that would be laughed out of town if they weren't **BATHED IN THE PIXIE DUST** of the Web.

The frantic commercialization of the Internet has begun. And it's not a pretty sight. Web pages are starting to look like cluttered outfield walls at Yankee Stadium. It's tacky, like **BUMPER STICKERS ON A FERRARI**.

Worse, even on ISDN or T1 lines, servers are so clogged that users end up spending way too much time staring while graphically intensive Web pages **S-L-O-W-L-Y** paint onscreen. And watching MPEGs, GIFs, JPEGs, or software sluggishly download in real time is about as fun as **WATCHING PAINT DRY**.

But wait. There's an entrepreneur out there with a clever, lucrative plan that solves a lot of these problems. His name is Robert Young, his company is FreeMark Communications, and his idea is to offer absolutely **FREE E-MAIL TO THE MASSES**—forever, no strings, period. The catch is that he delivers messages in little graphical envelopes with colorful postage stamps that sport advertiser logos. Click on a stamp and you see a little ad. Click again and you can get more information or have your printer bang out a money-saving coupon.

At the beginning of 1995 the Internet moved **A BILLION E-MAILS A MONTH**. Each month this number increases by 10 percent. On top of that, a new, transaction-based e-mail model promises to make today's traffic look like the Pony Express. It'll change the fundamental nature of the I-Way.

Why? The online world is new to most users, who are taking time to explore what's out there. But they'll soon learn what parts they like, realize their time is limited, and recoil at the cost. Besides, **MUCH OF WHAT THEY WANT** can be handled by cheap (or free) forms-based e-mail.

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You'll also subscribe to services that mail you everything from sports scores to weather reports to David Letterman jokes to automatic upgrades of your apps. Software agents will handle all the heavy lifting. Robert Young calls e-mail the **ONLINE OPERATING SYSTEM OF THE FUTURE**. He's right.

These guys have a snappy online demo at **HTTP://WWW.FREEMARK.COM**. Want a glimpse of the future? Check it out.

PHOTOGRAPHY BY JAMES MCDOON

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John C. Dvorak

CHEESE!

Five years ago I wrote a column about the end of film, predicting digital photography would reign. Since then, film sales have soared. Reminds me of the increase in paper sales when computers appeared, heralding the paperless office. During a period of transition, the popularity of the old commodity increases for a while, as people compare it with the new technology.

Still, at some point the computer will take its toll on both film and paper. The transition away from film has become very apparent to me over the last month, while I've been playing with Chinon's ES-3000 electronic camera. Similar to models from Apple Computer and other companies, the ES-3000 takes between 21 and 100 or so 640-by-480-pixel–resolution, full-color snapshots on a removable flash-memory card. You download the photos onto your hard disk, then erase them from the flash card so you can take more photos. If you have a child who likes to waste film taking pictures of cats, this camera will pay for itself in no time. Well, almost no time; it costs nearly $1,000.

Internet Posting Once you play with electronic cameras, you'll see why they're the future of photography despite some present limitations. The Internet has a lot to do with the growing popularity of these devices—they make posting a photo on the Net a piece of cake. You take the picture, offload it onto the computer as a bitmap, then convert it to a JPEG file. The bitmaps are about 1MB and shrink to 50K on average, with little image degradation. People are loading pictures onto the Net as quickly as they can turn them into JPEGs.

Now the bad news. Unless you have a dye-sublimation printer, the color printouts are not great. The 640-by-480 image breaks up fast when you blow it up or change the resolution. And digital photography uses video technology, capturing the image in much the same way a camcorder does. In fact, you can grab still pictures with your camcorder if you set the shutter speed at 1/10,000 of a second. That's how some newspapers get those weird sports shots.

Taken at 30 frames per second, camcorder stills work fine on newsprint. But video technology lacks the depth of contrast you've come to expect from film. There's a certain flatness to the picture, although this effect is somewhat diminished when you view photographs on a monitor.

You'll note other differences too. With an electronic camera, the concept of film speed is meaningless. You can't do a time exposure. The charge-coupled device either triggers or it doesn't, no matter how long you leave the shutter open. Lumens sensitivity is the key, just as it is with a video camera.

And except for Eastman Kodak's extremely expensive (more than $10,000, list) DCS 420, based on Nikon's lenses, electronic cameras don't include many bells and whistles. Chinon's ES-3000 suffers from an unresponsive shutter and minimal features (I'm used to Nikon's F4), but it does have a 3:1 zoom, which is more than most other electronic cameras offer.

People using **ELECTRONIC** *cameras shoot with* **ABANDON,** *posting photos on the* **INTERNET** *like crazy. It's* **AMAZING** *what you can do with a mediocre digital* **SNAPSHOT.**

Not surprisingly, Kodak—the company that's most likely to get hurt by the death of film—has gone into electronic cameras in a big way. Unfortunately, Kodak is clueless about the computer side of photography. For example, it announced a kiosk system to digitize and edit old photos, but chose Microsoft as the software provider to do the digital-image editing. Obviously nobody at Kodak ever heard of Adobe or any number of companies that actually sell such software. Microsoft is known for a lot of things, but photo-editing software is not on the list. Kodak probably wanted the Microsoft name just because some executive used Excel and liked it.

Photo Magic Still, you see the trend. And you sense the change in attitude. This is the weird part—the sociology of picture-taking. When you have one of these electronic cameras, you want to use it. A lot. When the camcorder first appeared, you found people all over the place videotaping everything. Now I see fewer camcorders at the zoo—I imagine some people just got tired of videotaping their lives. But with electronic cameras, you just want to keep shooting. You don't care how things turn out. You can erase the really bad shots and fix the ones you want to keep using Adobe's Photoshop or any of the new photo-editing software packages. It's amazing what you can do to improve a mediocre snapshot.

One of the biggest hardware hits this year is that little frame grabber, the Snappy-Video Snapshot from Play, which lets you use a camcorder to grab photos. But the Snappy is inconvenient when compared with something like Chinon's ES-3000. Also, Chinon was wise to use the standard 640-by-480 PC resolution for its frame size. Many of its competitors use all sorts of oddball sizes.

However you go about it, get into digital photography. It's another good reason to have a PC.

PHOTOGRAPH BY JAMES MAULDIN

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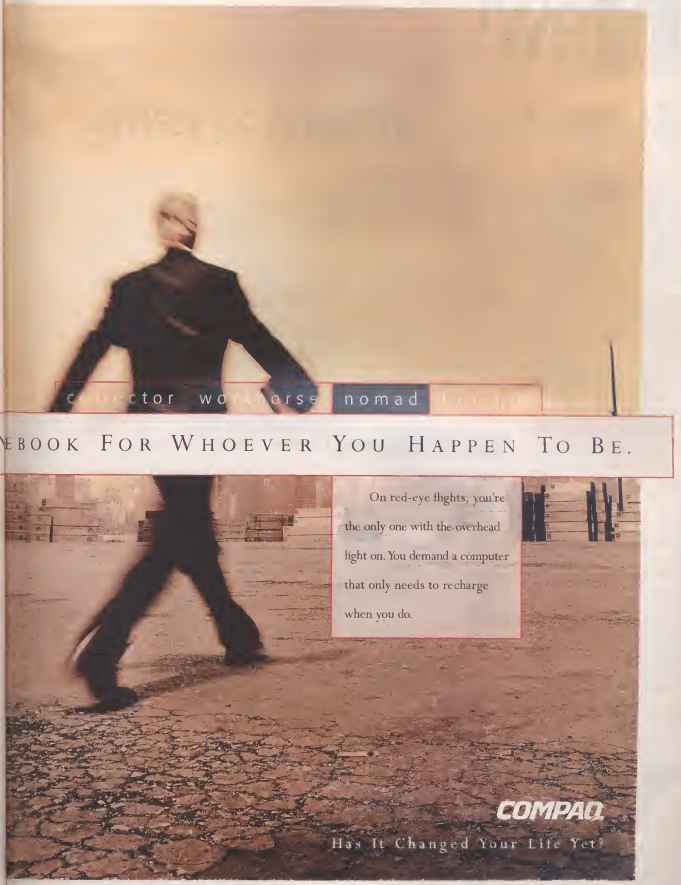
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State-of-the-art Soho Systems

Home computing has become a family affair, and home users are some of America's most demanding PC connoisseurs. The latest crop of small office/home office (Soho) PCs has something for every member of your tribe: games for the kids (and the adults—who are we kidding?), power to burn for the work-at-home types, educational and entertainment resources—we could go on.

We took a peek at four 100MHz-and-faster Pentiums from Digital, Hewlett-Packard, IBM, and NEC. Each of these systems puts more power at your fingertips than that aging 486 you've been using. And all of them have hard drive space ranging from 1GB to 1.5GB. You'll probably get a wider array of more-convenient communications options, too. Each system includes a built-in fax modem as well as full-duplex speakerphones, so you can use your PC as a telephone to speed-dial and talk with friends or business associates. Cutting-edge software supports multiple-mailbox voice mail, Internet connections, and special telephone services such as call screening. Why go to the office?

The software included with these machines could be the best perk: All of the systems boast 20 to more than 40 preloaded software titles, including Microsoft's Works 3.0 and Intuit's Quicken Special Edition for Windows. Full-motion video and 3-D surround sound, coupled with the more game-friendly Windows 95, produce theater-quality video and concert sound.

Maximum Multimedia IBM's Aptiva Model M50 delivers the sight-and-sound message. Few systems compete with its full-motion, full-screen video, not to mention the multimedia services provided by IBM's own Mwave digital signal processor.

Hardware-based MPEG and 3-D surround sound played over a pair of 30-watt full-duplex speakers can make your home feel like the neighborhood theater (that is, if the theater also happens to be equipped with a complete communications center). You can watch a movie or listen to a concert while the Aptiva Model M50's communications software arbitrates the downloading of fax, voice, and data calls over a single phone line, although it may be a stretch with its 8MB of RAM.

Leave the Aptiva M50 in sleep mode throughout the day, and it'll wake up to receive calls and then go back to sleep. Or you can schedule the machine to wake up and run an application at a specific time. You can even turn off the Aptiva M50 when your desktop is full of open files and applications, and return to the same setup when you turn on the machine again.

Going Digital Packing a 133MHz Pentium chip and 16MB of RAM, Digital's Starion 940 is the big boy on this block of 100MHz machines. Small wonder that it outran the next-fastest contender, NEC's Ready 9522. Of course, you pay more for the extra wind in your hair.

Digital also offers a multimedia feature set second only

OVERVIEW Fully Loaded, Affordable Desktops

All the Extras: This season's Soho systems from (left to right) Digital, Hewlett-Packard, IBM, and NEC offer something for everyone. HP's Pavilion is the slickest of the bunch, with its high-resolution monitor and attached speakers. All of the systems include built-in fax modems and full-duplex speakerphones.

High-speed Home Systems

Windows Performance

NOTE: WINSTONE 95 IS A BENCHMARK THAT RUNS 13 OF THE MOST POPULAR WINDOWS BUSINESS APPLICATIONS

Speedy Starion: Digital's Starion has a 133MHz Pentium, making it the speed leader in this systems roundup. But NEC's Ready and HP's Pavilion systems were faster than expected for 100MHz Pentiums.

Guide to PC Computing's Ratings

Excellent *Market leader that offers exceptional performance* ..... ★★★★★
Good *Excels in many areas; a good buy* ..... ★★★★
Acceptable *Average for its class; a justifiable purchase* ..... ★★★
Poor *Out of date or substandard; offset by some positive features* ..... ★★
Unacceptable *Missing necessary features; avoid* ..... ★

to the Aptiva M50's: hardware-based MPEG for full-motion, full-screen movies at 30 frames per second; and 3-D sound and wavetable audio from top-drawer JBL speakers. The Starion 940 and Aptiva Model M50 are among the few systems that meet most of the MPC Level 3 multimedia specifications. The Starion does it with a top-of-the-line add-in board with full communications services—Diamond Multimedia's Telecommander

Ready and Waiting NEC considers its 100MHz Ready 9522 to be only a midrange system, but it ranked closest to the Starion in performance. With its standard 16MB of RAM, it's all the PC most families will need.

The Ready 9522 uses somewhat slow software rather than hardware-based MPEG for full-screen video, and FM synthesis rather than wavetable sound. But its SRS Labs 3-D surround-sound system can be upgraded to wavetable, and it has all the communications features of the other machines, including a full-duplex speakerphone in a home telephone center that supports simultaneous voice and data transfers over a single phone line. As with the Aptiva M50, you can leave the Ready 9522 in sleep mode, and it will jump into action to receive faxes or phone calls.

One of the first things you'll notice about Hewlett-Packard's Pavilion 7050 is its great styling: a crisp multimedia monitor, attached speakers, built-in stereo amplifier, microphone, and complete audio and video controls. The whole affair is very cool, compact, and easy to set up thanks to its color-coded cables and step-by-step instructions.

The Pavilion 7050 comes with more than 40 preinstalled software packages, including its Windows shell Personal Page, which the kids will love. It looks like a page out of the *Flintstones* and divides applications into different desktops according to class. One of the advantages of its Windows 95 desktop is the clean look—everything is just a quick mouse click away.

The new Pavilion line is competitively priced, but there are a few trade-offs, such as only 8MB of RAM, a 14.4Kbps modem, and FM synthesis in lieu of wavetable.

Tough Choices If you want a fast computer and you're willing to pay for it, the Ready 9522 and Starion 940—which carry the highest sticker prices—are packed with enough goodies to make them worth the dough.

The Aptiva M50 and Pavilion 7050 seem cheaper at first, but you'll plunk down an extra $350 to bring their memory up to the 16MB needed to run Windows 95 comfortably. There's no question that the Aptiva is the multimedia king, but it's a low-slung desktop with an abundance of annoying plastic panel doors. And unlike the minitowers, it can't be upgraded. Even with its Mwave coprocessor, which frees the main processor of the multimedia burden, Aptiva's Windows applications score was depressingly low.

That brings us to the Pavilion 7050. Its 14.4Kbps modem is a little slow for Internet cruising, and its communications center lacks simultaneous voice over data, but its overall roominess, solid construction, and multimedia monitor make it the PC we'd most like to cuddle up with at home. MIKE HOGAN

PICKS SOHO SYSTEMS

Most convenient design	HP Pavilion 7050
The most eye- and ear-pleasing multimedia	IBM Aptiva Model M50
Second fastest and loaded with extras	NEC Ready 9522
Multimedia speed merchant	Digital Starion 940

FILEBOX

Aptiva Model M50
Usability ★★★★
Performance ★★★
Technology ★★★★★
Verdict ★★★★
Multimedia to the max.

$2,199 est. street price, plus $480 for 15-inch SVGA monitor
IBM
(800) 426-2968
Reader Service No. 618

Pavilion 7050
Usability ★★★★★
Performance ★★★★
Technology ★★★★
Verdict ★★★★½
First-class monitor and sleek yet utilitarian design.

$2,199 est. street price, plus $449 for 15-inch multimedia monitor
Hewlett-Packard
(800) 724-6631
Reader Service No. 619

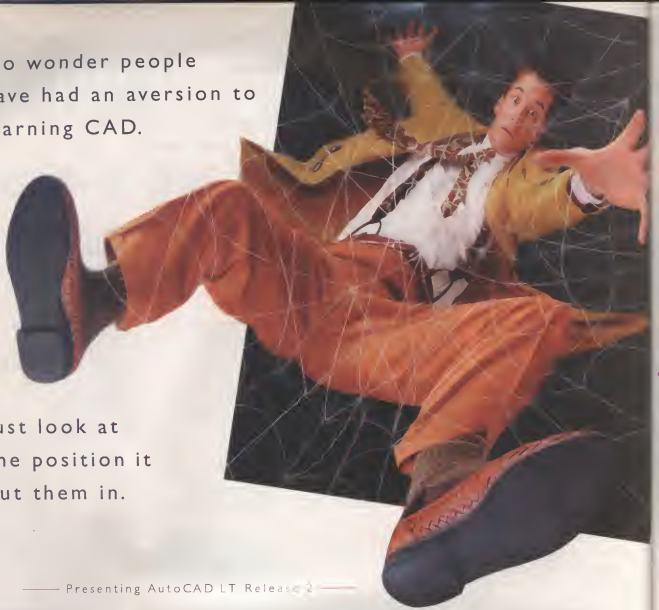
Ready 9522
Usability ★★★★★
Performance ★★★★
Technology ★★★★
Verdict ★★★★
Fast, packed, an all-around good buy.

$2,499 est. street price, plus $399 for 15-inch SVGA monitor
NEC Technologies
(800) 632-4636, (508) 264-8000
Reader Service No. 620

Starion 940
Usability ★★★★
Performance ★★★★★
Technology ★★★★
Verdict ★★★★
Pricey but speedy—you definitely get what you pay for.

$2,999 est. street price, plus $399 for 15-inch SVGA monitor
Digital Equipment Corp.
(800) 216-8115
Reader Service No. 621

No wonder people have had an aversion to learning CAD.



Just look at the position it put them in.

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On-line exercises guide you through the specific commands needed to draw in AutoCAD LT.

Cue Cards:
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CopyJet Color Printer-Copier

Hewlett-Packard's Color Copy Combo

Need quick color copies? You can head to your local service bureau every time you need to photocopy or print a color document—or you can spring for Hewlett-Packard's remarkable new CopyJet Color Printer-Copier and save yourself the trip.

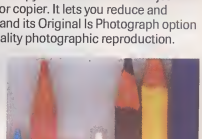
We've never seen anything like it: a color printer and copier in one for less than $2,500. Or for about $3,200, the CopyJet M model includes PostScript Level 2 and built-in network functions. True, the CopyJet isn't as fast as color laser printer-copiers like Canon's high-end CLC700; but then again, the CLC700 costs about $33,000. The CopyJet is a nice option for companies and small home offices that need an affordable color copy station on site.

It Prints, Too As its name clearly states, HP's CopyJet Color Printer-Copier isn't just a copier, it's a color printer, too. Armed with an enhanced version of the ink-jet engine used in HP's DeskJet 1200C, the CopyJet offers 600-by-300-dpi printer output at speeds of up to 7 pages per minute for text, and 300-by-300-dpi output at up to 3 ppm for color. Photocopying speeds are a bit slower—4 ppm for black and white, and 1 ppm for color.

Copies aren't limited to simple reproduction. Enlarge or reduce copies at any increment from 50 to 400 percent. The CopyJet has several default settings, including one that reduces legal-size documents to letter size, and another that enlarges 2-by-3-inch photos to letter size. The CopyJet's front panel is easy to navigate because of its two-line LCD and clearly marked push-button controls.

Two in One: HP's CopyJet is both a color ink-jet printer and a color copier. It lets you reduce and enlarge images, and its Original Is Photograph option ensures high-quality photographic reproduction.

Colorful Copies: The CopyJet's output is of much higher quality than you'd expect from such an inexpensive machine.



Copy Cat Photocopy output quality is excellent. From color photographs to random office objects like color pencils, the CopyJet's output wowed us every time. Color reproduction is accurate on reduced or enlarged images. There are, however, a few drawbacks. There's no sheet-feed tray, as you'll find on basic copiers, so you have to manually place each page face-down on the glass. It also means that it won't make five copies of your 8-page presentation while you're off enjoying a long lunch.

Another drawback is its speed. Although its output is stunning, the CopyJet is not the machine to use when you need color copies on the spot. For larger jobs, you'll still want to use a service bureau. In our tests, the CopyJet printed 70 percent faster than the DeskJet 1200C for color presentations and black-text documents, but about 48 percent slower for a color newsletter with mixed text and graphics.

But those are minor quibbles. The CopyJet brings us one step closer to breaking down the color barrier in the office. When you have a color copier-printer, you realize that all sorts of documents and graphics are much more effective when presented in color. And at such a low price, the CopyJet is an irresistible addition to any office. KYLA K. CARLSON

FILEBOX

CopyJet Color Printer-Copier

Usability	****
Performance	***
Technology	*****
Verdict	****

An affordable color copier and printer in one.

Competition: HP's CopyJet is the first of its kind. Color-laser copiers cost at least $20,000, and add-on copy functions for color lasers like Tektronix's Phaser 540 cost nearly as much as the CopyJet itself.

Engine Speeds: As fast as 4 ppm for text-only copies, and 1 ppm for color copies; as fast as 7 ppm for black printouts, and up to 3 ppm for color printouts.

Cost per Page: 3 cents for 5 percent black coverage, 7 cents for 15 percent color coverage, 13 cents for 30 percent color coverage, and 42 cents for 100 percent color coverage.

$2,495 est. street price for the CopyJet; $3,199 est. street price for the CopyJet M
Hewlett-Packard
(800) 752-0900
Reader Service No. 622

Guide to the Ratings: ***** *Excellent* **** *Good* *** *Acceptable* ** *Poor* * *Unacceptable*

Compaq's Multimedia Road Show

SNEAK PREVIEW

Be prepared for a shock if you think Compaq's new LTE 5000 is just another yawner upgrade to an aging line of portables. The machine has been redesigned from top to bottom. In fact, it's teeming with so much new technology we're a little surprised that it retains the old LTE moniker.

The LTE 5000 is Compaq's first foray into Pentium-powered notebooks. The machine features a big and bright 11.3-inch color display. It's a full-featured multimedia machine with the same modularity as top-drawer portables such as IBM's ThinkPad 760CD (see "IBM's Incredible Dream Machine," November, page 56), Gateway 2000's Solo S90 (see "Multimedia Travels Solo," November, page 74), and Twinhead's Slimnote 875TX.

Brawn and Brains Even though the LTE 5000's 90MHz Pentium is already outflanked by IBM's 120MHz models, it packs more than enough processing muscle for multimedia. As you'd expect, Compaq built plenty of raw CPU power into the LTE 5000. There's a 256K L2 cache and a speedy, high-resolution graphics accelerator running on a PCI local bus (256 colors at 800-by-600-pixel resolution).

The standard 8MB of RAM can be expanded to a whopping 72MB. Drive options top out at 1.35GB. Better still, you can add a second drive by simply popping it into the expansion bay that can also hold a CD-ROM drive, floppy drive, or second battery.

Multimedia is this machine's province. The LTE 5000 features MPEG compression for video and animation tracks. And video-capture circuitry (with ports) is a standard feature. IBM's ThinkPad 760CD is the only other portable with this feature. The integrated speakers have surprisingly good depth and range, but as with all notebooks, you'll want to tote along external speakers for complex sound tracks.

Unfortunately, the LTE 5000's big 11.3-inch panel is available only in a dual-scan, passive-matrix model. Make no mistake: It's bright and sharp, but the nature of the technology forces you to view it straight on rather than from an angle, limiting it to audiences of two. Its optional 10.4-inch thin film transistor (TFT) display is a better bet for road-bound presentations. Incidentally, the double-speed CD-ROM drive seems a little archaic given its other high-end features. We'd love to see a quad-speed model offered as an option.

Heavy Load To accommodate the bigger display, the LTE 5000 itself was increased to 9 by 12.2 by 2 inches. And weighing in at 7.4 pounds, it harkens back to the days of laptops and throbbing shoulders. Such is the price for portable multimedia, although Gateway's comparable Solo S90 weighs less.

But the LTE 5000's usability gets high marks. Its keyboard layout is excellent, although we wouldn't mind a little more key travel. It now features a pointing stick and a small-but-sufficient wrist rest, which makes typing quite comfortable.

A well-designed LED panel displays system status, and the hard drive is removable, as is the long-lasting lithium-ion battery. The AC adapter is no bigger than a deck of cards. The machine comes with infrared ports, dual PC Card slots, and a connector for a docking station.

With a street price of less than $6,000, Compaq's LTE 5000 is set to compete with Gateway's similarly equipped Solo S90. But look out, Gateway: Head to head, Compaq's LTE 5000 is a better buy.

MARTY JEROME

Multimedia Makeover: Compaq completely overhauled its flagship LTE line of notebooks. The new LTE 5000 features a Pentium processor, a removable double-speed IDE CD-ROM drive, an 11.3-inch high-resolution display, and stereo speakers.

Mix and Match: The LTE 5000's expansion bay can hold a CD-ROM drive, floppy drive, second hard drive, or a second lithium-ion battery.

FILEBOX

Compaq LTE 5000

Usability	****
Performance	*****
Technology	*****
Verdict	****½

Second only to IBM's ThinkPad 760CD for full-powered multimedia.

Competition: IBM's ThinkPad 760CD has comparably cutting-edge multimedia features, and Gateway 2000's Solo S90 competes in value. But the LTE 5000 offers greater modularity than the Solo S90, and it can render 64,000 colors on its display at 800-by-600-pixel resolution compared with the Solo S90's 256 colors at the same resolution.

Features as Tested: 90MHz Pentium, 8MB of RAM, 810MB hard drive, removable IDE double-speed CD-ROM drive, 11.3-inch dual-scan passive-matrix display, lithium-ion battery, LED status display, integrated microphone.

$5,899 est. street price
Compaq Computer Corp.
(800) 888-5858
Reader Service No. 623

Guide to the Ratings: ***** *Excellent* **** *Good* *** *Acceptable* ** *Poor* * *Unacceptable*

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133MHz Windows 95 Supersystems

Systems driven by Intel's Pentium Pro chip are just around the corner, but 133MHz Pentiums are still a better buy if you need to run high-speed Windows 95 applications. Four of the newest systems—AST's Bravo MS-T, Digital's Celebris GL 5133ST, NEC's PowerMate P133, and Quantex's QP5/133—give you more reason than ever to buy a 133MHz machine.

Loaded with 512K of cache and an ultrafast Matrox MGA Millennium graphics controller, Digital's Celebris led the pack in our performance tests. Close on its heels was NEC's PowerMate. AST's Bravo and Quantex's QP5/133 had nearly identical performance, both trailing behind the PowerMate's.

Room to Grow Sporting identical Caviar 1.6GB hard drives from Western Digital, the Bravo, Celebris, and PowerMate all offer more storage than was available in previous systems. Quantex's QP5/133, however, offers Western Digital's smaller and slightly slower Caviar 1.2GB drive.

All four 133MHz Pentium systems are packaged in industry-standard minitowers. But look beneath the surface and you'll see huge differences. AST's Bravo MS-T has a slick, well-built case, but its internal layout doesn't measure up. To install peripherals, you have to remove the bottom of the chassis, and two of the SIMM sockets are painful to reach. Digital included a proprietary CD-ROM drive that can't be removed in the Celebris GL.

Usability Extras The PowerMate's design is the cleanest and most functional of the group. The side panels slide off smoothly, making it easy to access the jumpers, expansion slots, and memory. Every cable and connector on the PowerMate is color coded for fast and easy installation. You'll even find a detailed poster describing everything included in the box—a nice touch. NEC also throws in an infrared transceiver, which provides two-way wireless communication with printers and notebooks.

The layout of Quantex's QP5/133 is almost as good as the PowerMate's: All the slots and critical components are at your fingertips, and there's room for expansion.

For top-notch performance and network connectivity Digital's Celebris GL is the clear winner, thanks to its built-in Ethernet controller. It costs more, but you may come out ahead if you factor in the cost of buying Ethernet cards and manually installing them to all your systems. If you're looking for a system that offers solid performance, as well as easy setup and maintenance, consider NEC's PowerMate P133. But if a low sticker price is your main consideration—there's no need to look beyond Quantex's QP5/133. ADAM MEYERSON

Sweet Spot: Intel's Pentium Pro chip lies just ahead, but 133MHz Pentiums like (from left) AST's Bravo, Quantex's QP5/133, NEC's PowerMate, and Digital's Celebris GL are better buys for running Windows 95.

On Par: The four 133MHz Pentium systems varied only slightly in applications performance. Digital's Celebris has the edge, thanks to its 512K of cache.

Desktop Workhorses

NOTE: WINSTONE 95 IS A BENCHMARK THAT RUNS 13 OF THE MOST POPULAR WINDOWS BUSINESS APPLICATIONS

FILEBOX

Bravo MS-T

Usability ***
Performance ***½
Verdict ***½
Odd case design makes upgrades awkward.

Configuration Tested: 16MB of RAM, Western Digital's Caviar 1.6GB hard drive, 256K cache.

$3,150 est. street price
AST Computer
(800) 876-4278
Reader Service No. 624

Celebris GL 5133ST

Usability ****
Performance ****
Verdict ****
Pricey, but it's network-ready.

Configuration Tested: 16MB of RAM, Western Digital's Caviar 1.6GB hard drive, 512K cache.

$3,949 est. street price
Digital Equipment Corp.
(800) 642-4532
Reader Service No. 625

PowerMate P133

Usability ****
Performance ***
Verdict ****
Average performer with nice usability touches.

Configuration Tested: 16MB of RAM, Western Digital's Caviar 1.6GB hard drive, 256K cache.

$3,299 est. street price
NEC Technologies
(800) 632-4636
Reader Service No. 626

Quantex QP5/133

Usability ***½
Performance ***
Verdict ***½
A basic package at an unbeatable price.

Configuration Tested: 16MB of RAM, Western Digital's Caviar 1.2GB hard drive, 256K cache.

$2,899 est. street price
Quantex Microsystems
(800) 787-8686
Reader Service No. 627

PHOTOGRAPH BY ARNOLD TOSELIO

Guide to the Ratings: ***** *Excellent* **** *Good* *** *Acceptable* ** *Poor* * *Unacceptable*

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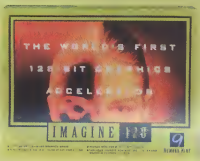

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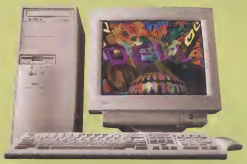

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*Based on WinBench 95 running Windows 95 at 1024 x 768

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MVP PC Computing September 1995 & September 1994

PC MAGAZINE EDITORS' CHOICE June 27, 1995

NUMBER NINE™ VISUAL TECHNOLOGY

PERFORMANCE RAISED TO THE POWER OF 9.

Circle 119 on reader service card.

PHOTOGRAPH BY ARNOLD DOSELAO

Double-Duty Color Printer

When was the last time you bought a product for your home office and used it just for business? Fess up—we all find uses other than the intended ones for our office gadgets, especially when it comes to color printers. Canon has taken this line of thinking one step further with its newest family of Bubble Jet printers. By throwing in dozens of software accessories, Canon gives you more excuses than ever to print in color.

Basic Black, Cool Color

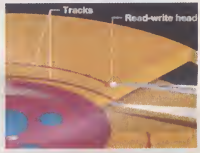
Canon's three new desktop printers come in varying prices and configurations. With the entry-level $250 BJC-210, you have the choice of printing in black, color, or color with a composite black. Its resolution is 720 by 360 dpi in black or color. The $550 BJC-610, on the other hand, offers higher-resolution color printing, at 720 by 720 dpi. The color cartridge has a black section, giving you true black with your color printing. Or you can use a dedicated black cartridge for basic text printing.

We focused our tests on the midrange $350 BJC-4100. The BJC-4100 offers 720-by-360-dpi black output and 360-by-360-dpi color output and has the same cartridge options as the BJC-610. This cartridge design lets you print a high volume of spot-color text documents without replacing the entire color cartridge when you run out of black. Optional black cartridges for use in place of the color cartridge cost $29 each.

As with other Bubble Jet printers, setting up the BJC-4100 is a snap. Canon improved the Windows printer drivers, making it easy to adjust output quality. The BJC-4100 is also fast for its class—about 53 percent faster than Hewlett-Packard's DeskJet 660C in our presentation graphics test. For basic text printing, however, the two printers were nearly equal.

The Canon BJC-4100's output wasn't quite as impressive as HP's top-of-the-line DeskJet 660C or Epson's Stylus Color printer. When printing pages with heavy ink coverage, we found a lot of banding on the pages. However, this was less apparent on coated paper. Text output was acceptable in our tests, but we'd like to see richer blacks and sharper characters.

Affordable Color: Canon's new family of Bubble Jet printers offers a range of color printing capabilities. The Canon BJC-4100 delivers solid 360-by-360-dpi color and 720-by-360-dpi black ink-jet output.



Creative Output: The BJC-4100 produces eye-pleasing pages, though text could be crisper. Canon includes software on CD for creating color pages.

Cottage Industry The real added value in Canon's Bubble Jet line of printers is the software. Each printer comes with Canon's Creative CD-ROM, which contains a host of software goodies, including Hallmark Connections Everyday Greetings, Crayola Art, Stationery Store, Pattern Maker, Sticker & Label Store, more than 300 TrueType fonts, and pieces of clip art. While the CD-ROM has a cute, easy-to-use front end, the bundled software comes from a variety of sources—and it shows in the interface differences.

Your creative options are endless. Canon has special paper available for creating T-shirt transfers ($17.95 for ten sheets), cross-stitch patterns using Pattern Maker ($33.95 for ten sheets), and cloth pillow covers.

This new line of ink jets offers color for everyone—from children and families to small businesses. Epson's Stylus Color and HP's DeskJet 660C produce higher-quality output, but Canon's BJC-4100 provides a unique package of software extras. If you're in the market for a double-duty printer for either your home office or your family, Canon's new line of Bubble Jets is definitely worth a look. KYLA K. CARLSON

FILEBOX

Canon BJC-4100

Usability	****
Performance	****
Technology	****
Verdict	****

Better-than-average output, great price, and many extras.

Competition: The BJC-4100's closest competitor is HP's DeskJet 660C, which has better output but lacks the great software.

Resolution: 720 by 360 dpi for black; 360 by 360 dpi for color.

Cost per Page: 3 cents per page for black; 27 cents per page for color.

Software: Canon's Creative CD-ROM includes Hallmark Connections Everyday Greetings, Crayola Art, Stationery Store, Pattern Maker, Sticker & Label Store, TrueType fonts, and clip art. For $9.95 you can buy the starter kit, which contains T-shirt transfer paper, coated paper, transparencies, and high-gloss film.

$350 est. street price
Canon Computer Systems
(800) 848-4123, (714) 438-3000
Reader Service No. 628

PHOTOGRAPHS BY ARNOLD TOSCO

Guide to the Ratings: ***** *Excellent* **** *Good* *** *Acceptable* ** *Poor* * *Unacceptable*

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After going down to Research and up to Sales and over to Finance I had this overwhelming pile of papers on my desk that were filled with numbers and words and facts and I was having a huge brain cramp. And as I sat there thinking about how to turn all this input into a plan that

Why I sat staring at my computer screen waiting for a divine act of God to figure it all out for me.

would mean something and look cool and inviting instead of boring and dull when I presented it, I realized that I had been sitting there for over two hours just staring at a mountain of information and the only thing I had typed were the words "sales plan and presentation." I figured that at four words every two hours, I wouldn't have this thing done until the year 2000. And that was way past my deadline

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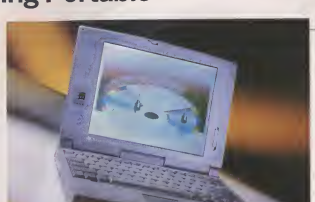
Penny-Pinching Portable

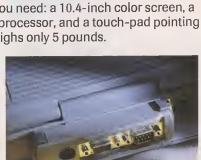
Texas Instruments' Extensa Model 450 doesn't *look* like the oversize, overweight, overpriced traveling theaters that big-name notebooks resemble. That's because it isn't. Its design is informed by a single idea: road-bound productivity. It's positively retro.

The $1,799 Model 450 (that price is not a typo) is the entry-level portable in the Extensa line. Outfitted with a 75MHz 486DX4 processor, 4MB of RAM, and a 340MB hard drive, the machine is a bare-bones workhorse best suited for word processing and e-mail.

Even so, the Extensa comes with a bright and beautiful 10.4-inch dual-scan color screen, although a 9.4-inch thin film transistor (TFT) display is also available. The hard drive is removable. The floppy swaps out with an optional lithium-ion battery (strangely, the primary battery is nickel–metal hydride) or with additional PC Card slots (there's one Type II slot on the side of the machine). And a two-way infrared interface is standard.



Near Perfect: The bare-bones Extensa Model 450 has everything you need: a 10.4-inch color screen, a 75MHz 486DX4 processor, and a touch-pad pointing device—yet it weighs only 5 pounds.



Lighter Load: Instead of using integrated VGA, serial, and keyboard ports, the Extensa Model 450's miniport replicator has adapters.

Take It Anywhere Even with all this, the machine weighs only 5 pounds and measures 8.2 by 11.7 by 1.7 inches. You can easily tote it along on an afternoon shuttle flight to a neighboring city.

The Extensa Model 450 comes with Windows 95 preloaded, meaning you'll want to bump up the base configuration of 4MB of RAM to at least 8MB (it's expandable to 32MB). Better yet, you can opt for one of the Model 450's slightly bigger, fuller-featured siblings. The Extensa Model 550CD is powered by a 75MHz Pentium with a 256K L2 cache. And it features the same 10.4-inch, dual-scan color display that comes with the Model 450.

With the 550CD, a 10.4-inch TFT display is optional, and you get 1MB of VRAM, compared with the 450's 512K. And as the 550CD's name implies, it comes with a double-speed CD-ROM drive that swaps out with the floppy or a second battery. Integrated 16-bit audio is standard. But because of these additional features, the weight of the 550CD jumps to 6.4 pounds, its size expands to 9 by 11.6 by 2.2 inches, and its price leaps to $2,999 with the TFT display. Even so, the 550CD is priced well below dozens of competing products.

Heads Up Usability across the entire Extensa line is quite good. Keyboard layout is excellent, cursor controls are placed below the right Shift key, and dual Alt keys reside on either side of the space bar. The function keys are undersized but accommodating, and key travel is short, although keyboard response is hardly impressive.

The Extensa 450 uses a center-mounted touch pad, with the mouse keys residing at the bottom edge. The surface area on the pointer is smaller than on many notebooks, as is the wrist rest. But given the Extensa's diminutive dimensions, these are sacrifices you'll be happy to make.

Instead of integrating the standard serial, VGA, and keyboard ports directly into the machine, it attaches them through a small port replicator so that you can leave them behind if you don't plan to use these adapters. The enhanced parallel port sits in its customary position, and a full-fledged port replicator is available if you want your machine to double as a desktop PC.

None of the Extensa notebooks will bowl you over with cutting-edge technologies or feature frills. Instead, they offer solid value. These machines were designed to give Toshiba's Satellite line and Dell's Latitude portables a hard run for their money. Take it from us: They'll succeed. MARTY JEROME

FILEBOX

Extensa Model 450

Usability	★★★★½
Performance	★★★½
Technology	★★★★½
Verdict	★★★★½

An outstanding value.

Competition: Competes head to head with Toshiba's Satellite T2100CS and Dell's Latitude 475C, but the Extensa Model 450 is a better buy.

Features as Tested: 75MHz 486DX4 CPU, 4MB of RAM, 340MB removable hard drive, two-way infrared interface, 10.4-inch dual-scan passive-matrix color display, one Type II PC Card slot, touch-pad pointer; VGA serial ports connect to the machine via a port enabler; the floppy drive is removable and can be attached through an external cable, leaving its bay free for a second battery.

$1,799 est. street price; $2,999 est. street price for Extensa Model 550CD
Texas Instruments
(800) 848-3927
Reader Service No. 629

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

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Circle 211 on reader service card.

Wide-Area Wireless Communicators

If you're one of the estimated 30 million mobile professionals in the United States, you've probably suffered the headaches of wireless data and messaging technologies: protocol incompatibilities, outrageously expensive and unreliable service, limited bandwidth, and more.

Time to consider two emerging technologies: Air Communications' AirCommunicator, a cellular smart phone and DTS Wireless's Zap-it, a low-price messaging service for the RAM Mobile Data networks.

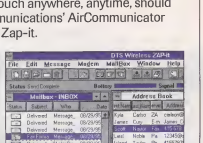
Smart Cellular Envoy

The AirCommunicator, which uses a cellular technology called AirTrue, goes beyond typical voice communication, letting you send and receive faxes and voice mail—even without a computer. By jacking into the serial port of a notebook PC, you can send and receive e-mail and data files, and go online.

AirTrue is a systems-level, single-ended protocol (which means it works with non-AirTrue devices as well) that interprets and processes cellular messages so your connection continues despite cell hops, short signal losses, power shifts, and fraud audits. While other cellular technologies, such as Cellular Digital Packet Data (CDPD) and Time Discount Multiple Access (TDMA), show great promise, they're years from matching the prevalence of cellular networks. Digital protocols for these cellular networks—such as proprietary, two-sided ones like MNP-10 and Enhanced Throughput Cellular (ETC)—are available, but they lack the performance, interoperability, and reliability of AirTrue.

Air Communications also offers AirCommunicator Lite for $695, and AirCommunicator Executive, which has more memory and a longer battery life, for $975. But the true long-term cost is in cellular service, which, on a nationwide average, varies from 15 cents to 45 cents per minute, in addition to monthly service fees, which range from $20 to $65 a month.

Tireless Wireless, Two Ways: Mobile executives who need to be in touch anywhere, anytime, should check out Air Communications' AirCommunicator and DTS Wireless's Zap-it.



In Touch: DTS Wireless's Zap-it stores and sends faxes. You can also use it to receive fax confirmations, send broadcast faxes, and keep an address book.

Affordable RAM Radio

DTS Wireless's Zap-it service takes a different approach. Instead of using cellular networks, Zap-it taps into the RAM Mobile Data network. This service lets you store and send (but not receive) faxes; receive and send e-mail; and reply to and receive pages using RAM Mobile Data–compatible wireless modems.

With the Zap-it software, used in tandem with your Windows or DOS PC, the Zap-it wireless service offers fax confirmation, broadcasting, and scheduling. Plus, Zap-it gives you a personalized Internet address, a toll-free pager number, and the ability to send alphanumeric pages to local, regional, and nationwide paging services. Best of all, Zap-it offers a unique text-to-speech message-delivery service that converts any text to a computerized voice message, which can then be delivered to any phone number. The message sounds as though it's being read by a Russian cyborg, but it gets the job done.

As with the AirCommunicator, service fees for Zap-it are a real deciding factor, and they're rather complicated. While several devices run Zap-it, we tested it using Motorola's InfoTAC, which will set you back $749 (or you can lease one from DTS Wireless for about $1 per day).

If you're looking for a smart phone that effectively integrates voice, data, and fax over cellular networks, the AirCommunicator is an excellent choice. If your focus is on sending faxes, trading e-mail, and paging over the RAM Mobile Data network, Zap-it is a fresh alternative to similar, higher-price services. RICH SCHWERIN

FILEBOX

AirCommunicator

Usability ****
Technology *****
Verdict ****½

A powerful but pricey all-in-one cellular communicator for voice, fax, and data.

$695 est. street price for Lite edition, which includes 2.7 minutes of message storage, 6 pages of fax storage, and a NiCad battery; $975 est. street price for Executive edition, which includes 16 minutes of message storage, 37 pages of fax storage, and a lithium-ion battery; cellular service and monthly fees vary
Air Communications
(800) 247-3282
Reader Service No. 630

Zap-it

Usability ****
Technology ****
Verdict ****

A low-cost way to fax, e-mail, and page over the RAM Mobile Data network.

$749 est. street price for Motorola InfoTAC (leasing available); service and monthly fees vary
DTS Wireless
(800) 967-0943, (908) 602-1144
Reader Service No. 631

Guide to the Ratings: ***** *Excellent* **** *Good* *** *Acceptable* ** *Poor* * *Unacceptable*

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Lightweight, Low-Cost Challenger

Imagine the look on your boss's face when he learns that you ordered a $7,000 notebook. Worth the laugh? Here's a better idea: Get the same power and usability of the high-priced notebook, but for less than $3,500. This is the thinking behind the WinBook XP.

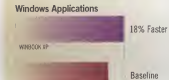
The machine's forte is its scalability; you buy only as much notebook as you need. Consider the bargain workhorse model: a 50MHz 486DX2 with 8MB of RAM, 520MB hard drive, dual-scan passive-matrix display that supports 8-bit color, and 14.4Kbps fax modem. Now add the optional 16-bit audio (there are dual stereo speakers, a standard set of adapters, and an integrated microphone). The damage? A mere $1,979.

Step up to the high-end WinBook XP with a 100MHz DX4, and you'll get a whopping 16MB of RAM, an 810MB hard drive, and a 10.4-inch thin film transistor (TFT) color display that offers support for 16-bit color for just $3,079. Additional options include hard drives of either 463MB or 771MB. Pentium versions of the WinBook (90MHz and 120MHz) are also available.

Budget Workhorse: WinBook squeezes a 10.4-inch TFT display and a sizable wrist rest onto a machine that weighs just 6.1 pounds and measures 8.5 by 11.3 by 1.7 inches. The optional $399 docking station includes a quad-speed CD-ROM drive and two ISA slots.

No Sticker Shock: The $3,079 WinBook XP is faster and more flexible than many notebooks with much higher price tags.

Affordable Edge



NOTE: WINSTONE 98 IS A BENCHMARK THAT RUNS 13 OF THE MOST POPULAR WINDOWS BUSINESS APPLICATIONS

No Hidden Costs Usability is solid on all of the systems. All models come with a Lexmark eraser-head pointing stick, or you can opt for an Alps GlidePoint touch pad ($80) or a 19mm Logitech trackball ($30). This is an arrangement other notebooks should emulate, if only to save themselves from the slavery of pointing-device fashions, which seem to change every six months. An ample wrist rest to either side of the pointer provides solid typing comfort. The keyboard layout is generally good, despite undersize function keys and the unusual placement of Insert and Delete keys to the right of the space bar. Keyboard response is crisp, if a little noisy. Also, we wouldn't complain if there were a trifle more key travel.

An LED displays system status, a feature typically found on notebooks costing thousands of dollars more. The hard drive is removable, as long as you have a coin to release a holding screw. For that matter, you can upgrade the CPU, memory, and audio circuitry as well.

Dock It The 10.4-inch active-matrix display is bright with radiant hues, although glare on the panel is distracting. Also, it currently supports only 640-by-480-pixel resolution with 256 colors, a standard that's quickly being superseded by higher-resolution 800-by-600 displays. In other words, you won't confuse it for a presentation machine. Still, the WinBook XP shoehorns an impressively large display into a machine that measures only 8.5 by 11.3 by 1.7 inches and weighs a mere 6.1 pounds. It's small and light enough to travel with you even on short hops.

Battery life in our tests ran slightly over three hours, which is average for a speedy 100MHz DX4. The Pentium models include lithium-ion batteries, which generally have a longer charge life than nickel-metal hydride batteries (which were used in our test machine).

An optional docking station ($399) features a quad-speed CD-ROM drive and two ISA slots, in addition to a full complement of ports. And like the WinBook XP itself, it's handsome and well crafted. In fact it's easy to mistake this duo for far more expensive technology. The WinBook XP may lack high-end features, such as infrared ports and high-resolution video, but it delivers plenty of value for the dollar. **MARTY JEROME**

FILEBOX

WinBook XP

Usability	****½
Performance	****½
Technology	****
Verdict	****½

You could pay a lot more for what this machine delivers.

Competition: Usability and features rival Dell's Latitude and AST's Ascentia. Scaleability is the WinBook's forte: Models range from bare-bones 50MHz DX2s to 120MHz Pentium desktop replacements—with features that span the gamut.

Features as Tested: 100MHz 486DX4 CPU, 16MB RAM, 810MB hard drive, 16-bit audio, 14.4Kbps fax modem, 10.4-inch TFT display, docking station with built-in quad-speed CD-ROM drive and two ISA expansion slots.

Configuration Options: RAM expandable to 32MB; 10.3-inch dual-scan passive-matrix screen; 463MB, 771MB, or 810MB hard drive.

$3,079 est. street price
WinBook Computer Corp.
(800) 468-2162
Reader Service No. 632

Guide to the Ratings: ***** *Excellent* **** *Good* *** *Acceptable* ** *Poor* * *Unacceptable*

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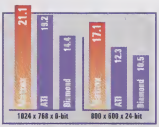

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*Estimated street price based on recommended selling prices for the 2 MB versions **Multimedia SuperPack available in MGA Millennium retail packaging only. Windows 95 tests: Build 0011 (packaged sold by Matrox Graphics) Inc. using CPI (www. Windworks.com) on a Gateway P100 system with 256k cache - 16M RAM in 4M x 16 in 256 pages (large memory) and 833 x 600 in 16.7 mil. colors (24 bit) using Matrox MGA Millennium 2 MB PCI Bus Mastering with Matrox 64 Video and ATI Graphics. Pro Turbo were configured with 2 MB of memory on the PCI bus using driver versions 2.00.001, 4.00.001 and 4.00.021 respectively.

MATROX MGA POWER GRAPHICS

PCComputing BEST OF THE BEST

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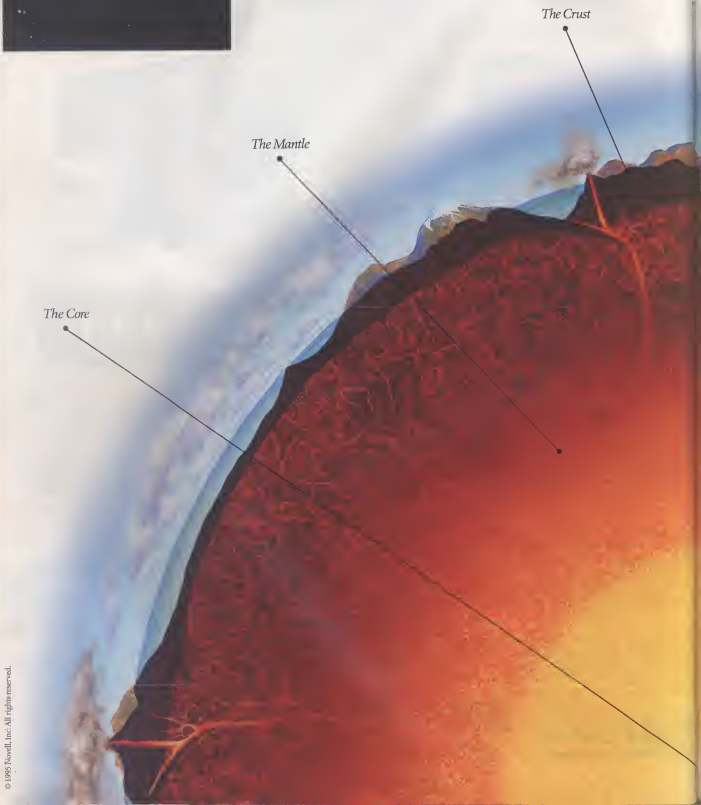
Circle 154 on reader service card.

There's been a slight alteration in the big picture.



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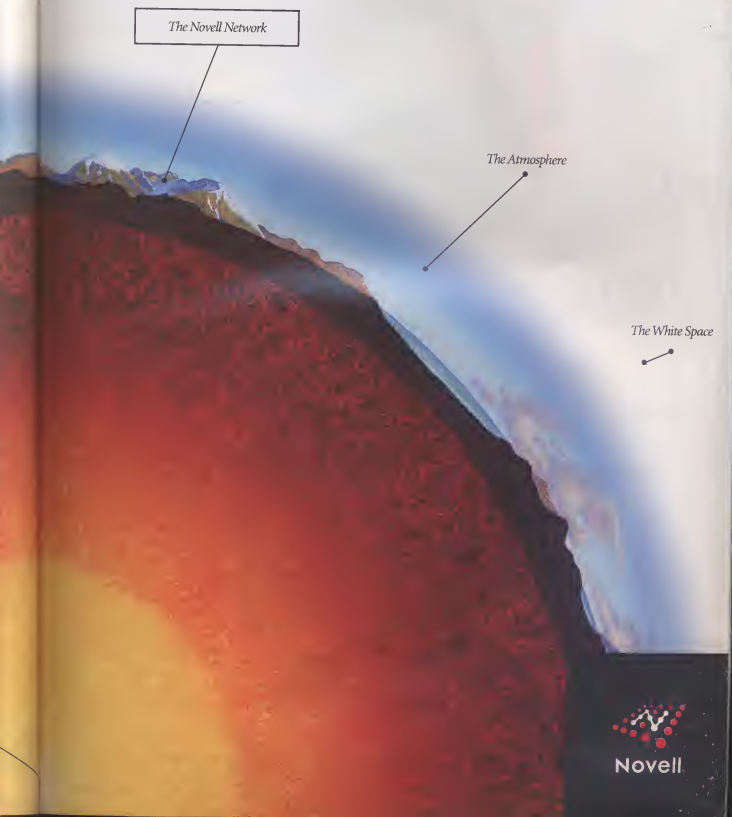

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New! SOFTWARE: Cashé • Visio 4.0 • Acrobat 2.1 vs. Common Ground 2.0 for Windows OmniPage Pro 6.0 vs. TextBridge Pro 3.0 • First St. • ASAP

Emissary, Explore 2.0, Internet Chameleon 4.5, InternetSuite

Everything You Need to Net

It's easier than ever to browse the World Wide Web. But what if you need to access e-mail, newsgroups, Gopher sites, Telnet, and FTP servers, too? Four Internet packages—Quarterdeck's InternetSuite, Wollongong's Emissary for Windows 95, FTP Software's Explore 2.0, and NetManage's Internet Chameleon 4.5—tap into everything the Internet has to offer.

While all four suites deliver basic Internet tools, they differ considerably in ease of use, features, and integration. Two of the four, Emissary and InternetSuite, are completely integrated so that all of their features are available from a single set of menus and controls. In Explore 2.0 and Internet Chameleon 4.5, the pieces aren't as tightly coupled.

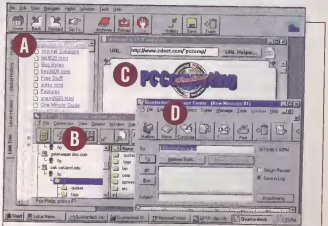
The Basics Quarterdeck's InternetSuite provides the perfect feature set for novices—a Web browser; an e-mail–newsgroup reader; and FTP, Ping, and Telnet support. It's easy to set up, and you can configure InternetSuite for either dial-up service through one of five independent service providers, or direct connection via your LAN by simply entering your gateway address.

InternetSuite doesn't have a Gopher-specific feature, but it doesn't really need one: You can access Gopher sites through its Web browser or FTP. Or you can download files via the browser, but there's no visual feedback about download progress as you'll find in Netscape's Navigator, and you're better off using the easy, drag-and-drop FTP interface to grab files.

We found the Message Center's integrated e-mail and newsgroup readers to be top-notch. You can copy Clipboard text into the Message Center, attach zipped files to messages, and easily forward and reply to messages. It works a lot like the Exchange client in Windows 95. Message Center is also useful for keeping up with and managing newsgroup subscriptions and postings. Best of all, InternetSuite costs only $39, and it includes a free month of service through NetCom. Experts, however, want a heavier-duty package.

Everything Net Internet Chameleon 4.5 is the most feature-packed of this bunch, with 18 applications that support hundreds of features. But do you really need it all? Beginners probably won't. Serious Net-heads will. Installation is a five-minute process, and it takes another five minutes to select from one of the many service providers listed in Internet Chameleon's *Getting Connected* booklet.

The Internet Chameleon's WebSurfer is satisfactory, but as with browsers for the other three, it doesn't support all of the HTML 3.0 bells and whistles (such as text wraps and tables) that Netscape's Navigator does. Internet Chameleon's e-mail–newsgroup hybrid, NewtNews, makes managing communications a clean process, while Gopher, Archie, FTP, and



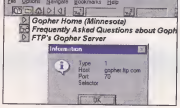
The Whole Internet: Quarterdeck's InternetSuite is a sure bet for complete Net and Web access. It has the requisite features—FTP, Telnet, e-mail, and newsgroups—and some unique ones like Link Tree, which puts hyperlinks in a hierarchical list.

A. The **Link Tree** displays all hyperlinks.

B. Drag and drop to download using QFTP.

C. The QMosaic browser lets you surf the Web.

D. Use the **Message Center** for e-mail and newsgroups.



Gopher: FTP's Explore 2.0 provides a complete set of simple but functional tools, including a basic Gopher tool.

FILEBOX

Emissary

Verdict ★★★★
A full-featured browser.

$140 est. street price
The Wollongong Group
(800) 872-8649, (415) 962-7100
Reader Service No. 637

Explore 2.0

Verdict ★★★
No-frills Internet access.

$99 est. street price
FTP Software
(800) 282-4387, (508) 685-4000
Reader Service No. 638

Internet Chameleon 4.5

Verdict ★★★★½
Smart Ecco integration.

$125 est. street price
NetManage
(408) 973-7171
Reader Service No. 639

InternetSuite

Verdict ★★★★½
A top-notch, well-integrated, complete I-Way starter kit.

$39 est. street price; one month of free service from NetCom
Quarterdeck Corp.
(800) 354-3222, (310) 392-9851
Reader Service No. 640

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

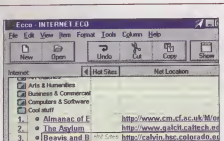
New! SOFTWARE: Emissary, Explore 2.0, Internet Chameleon 4.5, InternetSuite

Telnet applications use familiar hierarchical views.

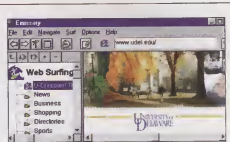
The best thing about Internet Chameleon is its tight integration with NetManage's popular Ecco Pro 3.0 personal information manager (see "Contact Management Meets the Net," September, page 116). Ecco Pro's Internet Address Book is a great way to manage your Web wanderings. Using Newt Shooter, you can quickly surf and add sites to your Internet Address Book in one click. And registered users can surf over to NetManage's home page for Address Book updates. This feature in particular is reminiscent of Delrina's $199 CommSuite 95 (see "One-Click Internet, E-mail, and Fax," November, page 83), which includes a Windows 95 browser, Internet utilities, and a guidebook of Internet addresses. Unlike any of the Internet suites reviewed here, however, CommSuite 95 also includes hooks for managing your faxes, BBS connections, and other telephony options.

Agent Internet Wollongong continues its history of providing reliable TCP/IP products with Emissary, which we reviewed in beta. Emissary incorporates a Web browser, an e-mail–newsgroup reader, and FTP programs into a single Windows 95 Explorer-like interface.

Emissary uses an architecture called Client Object Linking Technology (COLT), which allows it to support and integrate a variety of client objects—making it easy to plug in new features and services. Emissary's browser automatically inputs *http://* when you're accessing a Web site; you'll never have to type those seven characters again. And Emissary is the only one of the four products we reviewed to support OLE 2.0, so you can drag and drop between Internet applications on your desktop. It will also be available for both dial-up connections (Emissary Internet Edition) and LAN connections (Emissary Desktop Edition).



Get Organized: Internet Chameleon 4.5 integrates well with Ecco Pro 3.0, NetManage's own contact manager.



Browsing 95: Emissary combines all of its Internet and newsgroup features into a single Windows 95 interface.

Explore the Options Explore 2.0 almost matches Internet Chameleon's comprehensive feature set, but it's not nearly as well integrated. Setting up an account with an independent service provider like MCI or Portal was fairly easy, but it required some background experience in setting up TCP/IP stacks. And if you already have a TCP/IP stack loaded (for example, with Windows 95), Explore doesn't bother installing another one. (InternetSuite installs one for you even if you already have one in place.) This added benefit simplifies things considerably.

You can choose from more than a dozen typical Internet features, including e-mail, newsgroups, FTP, and Telnet; there's also a basic Web browser that the company licensed from Spyglass. Most of the features—especially the news and e-mail tools—are functional, but Spartan.

Competing Factors All four of these Internet suites compete indirectly with a smattering of features from commercial online services, including America Online, CompuServe, Microsoft Network, and Prodigy. You'll also find similar features in Spry's trio of Internet products: Internet in a Box, Mosaic in a Box, and Internet Office.

If all you want to do on the Internet is browse the Web, these full-featured Internet suites are overkill. You're better off choosing Netscape's Navigator Personal Edition and signing up with a local service provider. But for full access to the entire Internet—newsgroups, e-mail, and FTP sites included—Quarterdeck's InternetSuite is easily the best starter kit. More experienced Internet users should consider Emissary. Ecco Pro fans, meanwhile, will like the integration offered by Internet Chameleon. Also ahead is Netscape's Navigator 2.0, which will offer unmatched HTML 3.0 support, embedded objects, and better bookmarks, e-mail, newsgroups, and chat support. Emissary, Explore 2.0, Internet Chameleon 4.5, and InternetSuite are nice, but if Netscape has its way with Navigator 2.0, their days are numbered. RICH SCHWERIN

PICKS ALL-IN-ONE **INTERNET** SUITES

Powerful Internet features and integration with Ecco Pro 3.0.	Internet Chameleon 4.5
Simple setup, low cost, and super Internet tools.	InternetSuite
Capable, all-in-one Windows 95 browser.	Emissary
Covers the basics with a no-frills interface.	Explore 2.0

Surf's Up: Quarterdeck's InternetSuite is the best choice for simple, super World Wide Web surfing, but each suite is distinct and suits different surfers.

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[1] Hardware support during warranty, preloaded operating system support for 60 days, excluding some holidays. [2] For copies of IBM's Statement of Limited Warranty, call 1 800 772-2227. [3] Only available during first year of warranty. Hw-1: 8am–9pm EST. In Canada, call 1 800 465-3299 (document #45215). IBM and HelpWare are registered trademarks and "There is a difference" is a trademark of International Business Machines Corporation. ©1995 IBM Corp.

IBM®

Crystal Ball for Chief Financial Officers

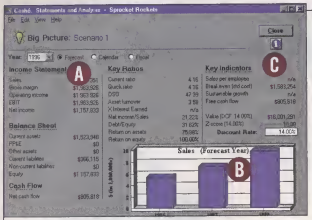
Would you shell out $995 for a glimpse of your business' financial future? If so, look into Business Matters' Cashé, a powerful financial-planning and forecasting tool for medium- to large-size businesses. While other forecasting tools are no more than Excel templates, Cashé goes far beyond the spreadsheet metaphor.

Chief financial officers will love this product. They'll plunge right in and start cranking out insightful financial forecasts of up to seven years. Not a CFO, but in charge of finances anyway? If you already have a fair amount of financial knowledge, the help documentation provides background information so you can better use this high-end financial planner. It's not the step-by-step Wizard-like tutorial we were looking for, but it's a nice start.

What You Put Into It

Begin by entering your projected goals, the number of years you want to forecast, and your company's financial data—from highly specific equipment-upgrade costs to more general sales revenues, and everything in between. Cashé then meshes these numbers with preloaded data, like your Standard Industrial Classification (if you don't know what yours is, Cashé helps you figure it out), and state-specific tax information. It also runs a series of detailed what-if analysis reports.

The beauty of the program is its flexibility: You can enter your data down to the penny, or simply fill in how much you spent and how much you made. You decide the amount of data to include. Of course, the more financial data you provide, the more insightful the forecast will be.



Cashing In: Cashé is a first-of-its-kind financial analysis and forecasting package. Focusing on a one- to seven-year future, it lets you build models for sales, expenses, payroll, profit margins, and other financial aspects of running your business.

A. Where do you make money? Here's a brief rundown of all possible **Income sources.**

B. Forecast your financial future for up to seven years.

C. Use the **Key Indicators** to check your strengths and weaknesses.

Control Time: Early testers found this statement viewer useful for deciding which time line to view.

Cashé's ability to analyze a variety of situations is quite powerful. Depending on the information you decide to input, you can quickly generate several years' worth of income statements, balance sheets, cash-flow statements, and comparative financial ratios from industry averages. In other words, it tells you how your business measures up against the competition. Cashé also gives you information on the exact dollar value of your business, how various changes and scenarios will affect your business, and how much income you need to generate in order to achieve various levels of profitability.

Finally, there's the end result: analysis statements and reports. Cashé crunches the data and churns it out in several ways. You can get a balance sheet, a line-chart analysis of sales volume vs. profitability, or even a Dupont tree showing return on equity and invested capital. Many of the reports are graphical, which is ideal for presentations, especially because Cashé lets you determine what types of graphics best suit your needs.

No Hocus-Pocus This product doesn't do anything that you can't do with a spreadsheet, a calculator, and various reference books. It just does it a lot faster. And although it won't keep your books for you, Cashé is financial planning and forecasting at its easiest, presented in an all-inclusive interface. A fair amount of financial knowledge is required. While the help files are good for brushing up on financial lingo, they're not comprehensive enough for financial novices. But then again, this product is designed for CFOs and their ilk.

Is it worth nearly a grand? If your business has gross revenues of less than $1 million a year, probably not. But considering its speed, quality, and the ease with which it churns out information and analyses, Cashé is an essential tool for big businesses that need the power to peek into the future. **JACK LYON**

FILEBOX

Cashé

Usability ****
Technology ****
Verdict ****½
Corporate financial wizards (and apprentices), this is your dream come true.

Competition: Simple spreadsheet templates like Budget PC and Up Your Cash Flow offer some financial forecasting via Excel, but they don't come close to the comprehensive analysis of Cashé. High-end packages like Value Line and Alcar, which tend to run $10,000 and up, offer many of Cashé's features but are geared to a particular type of solution. For instance, Alcar is designed specifically to show shareholder value.

System Requirements: Windows 3.1 or later, 486 CPU, 8MB of RAM, 8MB of free hard disk space.

$995 est. street price
Business Matters
(800) 993-3600,
(617) 889-8700
Reader Service No. 641

Guide to the Ratings: *****Excellent ****Good ***Acceptable **Poor *Unacceptable

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Ready-made Drawing Smarts

You're a businessperson, not an artist. But not a day passes when you don't have to communicate visually and graphically. It's no surprise then, that a glut of business-graphics applications were designed to create flowcharts, network diagrams, maps, and time lines. But unlike simple drawing programs, business-diagram applications excel at representing information graphically, even letting you connect information from spreadsheets and databases directly to a shape. For creating business drawings quickly and easily, Visio Corporation's Visio 4.0 is the best we've seen.

Connect the Dots Visio helped define chart-making simplicity, and with the Windows 95 version, the company has upped the ante once again. Visio 4.0's 32-bit performance means you'll speed through the drawing process 20 percent faster than in previous versions and be able to use all of Windows 95's shortcuts and mouse tricks.

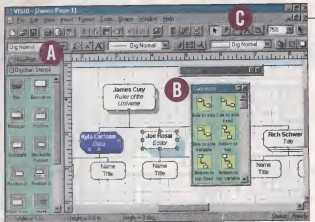
The program opens with a helpful selection of Stencils, or object templates. Choose one from among the 29 total and you're ready to create a diagram just by dragging and dropping objects onto the work area on the page.

These Stencils are a great head start for creating diagrams. They include sets of symbols for block diagrams, maps, flowcharts, forms, networks, office layouts, project time lines, and other topics. Adding personalized Stencils is simple. Many of the stencils were developed to convert shapes from Micrografx's ABC FlowCharter and Corel's CorelFlow. You can also associate data with any Visio shape, which ties databases and spreadsheets to your flowcharts. When you change the properties in a Lotus Notes database, for example, your associated diagrams change automatically—or vice versa.

For the diagramming novice, there are comprehensive help balloons that identify buttons, shapes, and the manner in which objects can be stretched and placed. And Visio 4.0 includes new wizards to help you work through trickier diagrams such as Gantt charts, time lines, and geographic maps. The program also provides tools that keep shapes in the correct perspective and position on the page, which helps maintain your chart's integrity. It also has tools for connecting several shapes automatically—a time-saver when you're dealing with several components at once. For even more shapes as well as AutoCAD integration, check out Visio Technical 4.0 (see review on page 228).

Simple and Powerful Another big strength of Visio 4.0 is its ability to link diagrams to almost any application you use. And as with previous versions, it can switch its own interface on the fly to mirror the look and feel of Microsoft's Office, Novell's PerfectOffice, or Lotus's SmartSuite. It also supports OLE 2.0 and Microsoft's Office Binder, which groups applications and files in one place for easy access and organization.

Visio's goal is to make creating a diagram or flowchart as simple as cranking out a memo in a word processor, and with Visio 4.0 it nearly is. Not only is it easier to use than competing products such as ABC Flowcharter and CorelFlow, but you can customize its look and feel to match your work style. And while many diagrammers stick to building flowcharts and org charts, Visio 4.0's range extends from floor plans and network diagrams to Gantt charts. If you create a range of business diagrams, get Visio 4.0. **JAMES OLIVER CURY**



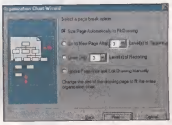
Think Visually: Visio 4.0 makes it easy to create sophisticated charts and diagrams with drag-and-drop shapes.

A. Visio offers 29 stencils—each with its own theme—and more than 1,000 drag-and-drop **SmartShapes.**

B. The **stencils** open up on the left side of the screen, but you can move them anywhere and roll up the toolbar.

C. Visio 4.0 lets you **match your toolbar** to that of your business application suite.

Do It for Me: Usability improvements include wizards that step you through org charts, time lines, floor plans, and flowcharts.



FILEBOX

Visio 4.0

Usability ****
Technology ****½
Verdict ****½

The easiest and most versatile drag-and-drop diagrammer around.

Competition: Corel's CorelFlow and Micrografx's ABC FlowCharter both have plenty of templates, clip art, and various tip systems, but neither can match Visio 4.0's simplicity or customizability.

Templates Included: Basic, block, chart, demo, flowchart, forms, map, mind mapping, network, office layout, organizational chart, and project time line.

System Requirements: Windows 95 with 8MB of RAM, Windows 3.1 with 4MB of RAM, or Windows NT 3.5.1 with 16MB of RAM.

$149 est. street price; $79 for upgrade
Visio Corp.
(800) 446-3335,
(206) 521-4500
Reader Service No. 642

Guide to the Ratings: ***** *Excellent* **** *Good* *** *Acceptable* ** *Poor* * *Unacceptable*

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[1] Pentium chip sold separately. [2] Some hardware/software configurations may be necessary. HCC financing available to qualified commercial customers only. [3] M-F, 8am-8pm EST. In Canada, call IBM's HelpFax at 416-485-2939 (ask for document #45230). IBM and SystemView are registered trademarks and NetFinity and "There is a difference" are trademarks of International Business Machines Corporation. Pentium is a registered trademark of Intel Corp. © 1995 IBM Corporation

Perfectly Paperless Documents

SNEAK PREVIEW

Your boss wants you to e-mail those sharp, new marketing designs to her, pronto. But she has neither the right application nor the correct fonts to view them onscreen. The solution? A portable-document utility that converts documents or images made in any application into files that anyone can read regardless of their applications, fonts, or platform—provided they have the correct viewer.

Adobe's Acrobat 2.1 and Common Ground 2.0 for Windows both get the job done, but each has different strengths. Common Ground is easier to use and its documents are easily distributed. Acrobat has superior PostScript handling and is a smart choice for Web publishers and graphic artists.

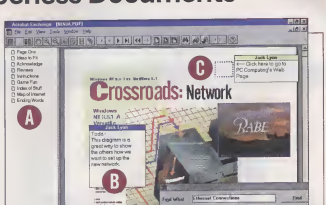
Great Imitations Both products convert any document while keeping the page layout intact—regardless of graphics and text formatting—into a compact document that anyone who has the appropriate viewer can open, annotate, and search. Both the Common Ground and Acrobat viewers are free and widely available. Download them from *PC Computing*'s online sites (see details on page 366). Other similar features include password protection, live Web links, and links to other parts of the document. And both keep the electronic document files small: Each reduces a 1-page document full of graphics and fancy fonts to less than 20K of memory.

For e-mailing a single document to several people, Common Ground is the better choice. Unlike Acrobat, it embeds the viewer directly into the document, and the recipient simply double-clicks on the document to open it. Common Ground uses a technology called DigitalPaper, which reproduces everything to the pixel, regardless of format or font. Acrobat, on the other hand, uses Adobe Type Manager and occasionally substitutes fonts—but people with untrained eyes won't notice.

Pushing the Standard Acrobat is quickly becoming the standard. Expect to see it embedded in the next version of Netscape's Navigator, the market-leading Web browser.

With the various products in the Acrobat line, you can set up a complete electronic library that's text-searchable—even over networks. It also creates links from one Acrobat document to another. If high-quality graphics are essential, you'll want the Acrobat Pro package, which includes Distiller, a utility that converts PostScript files to PDF format.

Acrobat is the best choice for Web publishers, graphic artists, and businesspeople who need a scalable documentmanagement solution. Common Ground is easier to use and lets you embed viewers into documents, but it offers fewer features than Acrobat. If you're interested only in electronically distributing documents, go with Common Ground 2.0. If you need a more advanced solution, Acrobat 2.1 is the best pick. JACK LYON



Multimedia Web Publishing: The newest version of Adobe's Acrobat integrates live Web links, QuickTime movies, and a simple way for you to deliver your message far and wide.

A. **Bookmarks** make navigation easy.

B. Incorporate notes with the **annotation** feature.

C. Live **Web links** are easily embedded.

Decoding Documents: Common Ground 2.0 is easier to use than the competition. Unlike Acrobat, it embeds viewers directly into files.

FILEBOX

Acrobat 2.1

Usability	****
Performance	****½
Technology	****½
Verdict	****½

Supporting multiple platforms, networks, and the Internet, it's the complete solution.

Competition: Common Ground 2.0 is easier to use, but can't match Acrobat in Internet support or market share. Novell's Envoy doesn't have the image-support features of Acrobat or Common Ground.

Test Drive: Grab a free viewer from our online sites.

System Requirements: Windows 3.x or later, 386 CPU, 4MB of RAM, 5MB of hard disk space.

$189 list price; $595 list price for Acrobat Pro
Adobe Systems
(800) 833-6687, (415) 961-4400
Reader Service No. 647

Common Ground 2.0 for Windows

Usability	****
Performance	***½
Technology	****
Verdict	****

Simple solution for distributing electronic documents.

Competition: Adobe's Acrobat 2.1 is tailored for serious publishing ventures. Novell's Envoy can't match the image-support features of Common Ground or Acrobat.

Test Drive: Try a 30-day free demo of Common Ground 2.0 and grab a free viewer from our online sites.

System Requirements: Windows 3.x or later, 386 CPU, 4MB of RAM, 5MB of hard disk space.

$189 est. street price
Common Ground Software
(800) 598-3821, (415) 802-5800
Reader Service No. 648

Guide to the Ratings: ***** *Excellent* **** *Good* *** *Acceptable* ** *Poor* * *Unacceptable*

THE FIRST SOFTWARE THAT HARNESSES ALPHA WAVES TO FAX DIRECTLY INTO SOMEONE'S BRAIN.

(THAT'S IN THE PIPELINE. MEANWHILE, YOU WON'T FIND A FAX PROGRAM MORE ADVANCED THAN NEW DELRINA WINFAX PRO 7.0 FOR WINDOWS 95.)

Alas, Delrina developers still haven't figured out how to fax into someone's brain after 11 P.M. (when rates are lower) without waking him or her up. Fortunately, their latest release – new Delrina WinFax™ PRO 7.0 – is as easy and powerful as one would expect from the best-selling, most award-winning fax software in the world. It fully exploits new Windows® 95's 32-bit multi-tasking, multi-threading talents for true background faxing, greater speed and more. But it doesn't stop there. With the new TalkWorks™ telephony option and your voice modem, WinFax PRO 7.0 turns your computer into an integrated in-box for faxes, e-mail and voice mail. It even takes phone messages, distinguishes between fax and voice calls, has fax on demand and identifies callers before you pick up. And there's more. Built-in compression cuts fax transmission time (and phone bills) by up to one-third. It now supports gray-scale faxing, integrates with Microsoft® Exchange, and includes OCR, 101 ready-to-use fax cover sheets and tools to design your own. You can even get WinFax PRO as part of new Delrina CommSuite™ 95, the complete, affordable, integrated communications software solution for Windows 95. All of which should suffice until the new alpha wave faxing program is ready. (Hmm. Perhaps if we *partition* your brain so that one half can receive faxes while the other remains undisturbed...)

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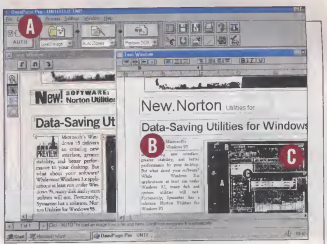
Fast and Accurate OCR

Doez the OCR solltwai'e thnat came witln youl' scannel' faii fiat? While OCR software is a great idea, it has been plagued with problems: it's traditionally been slow, complex, and worst of all, inaccurate. Still, it has always been a valuable tool in the paper chase, letting you scan a printed page and translate it into a small, editable text file.

The latest versions of Caere's OmniPage Pro and Xerox's TextBridge Pro eliminate the first two problems, offering speed and ease of use. As for accuracy, these programs still have room for improvement, although they easily outperform other OCR packages. Our tests showed that the accuracy rates for the two programs were almost identical. Both offer valuable tools such as multiple-language recognition, enhanced fax recognition, simple text-editing, and spell checking.

TextBridge Pro 3.0 takes a minimalist approach, offering a simple interface, a lower price, and limited flexibility, while OmniPage Pro 6.0 is the limber powerhouse. It contains enough options and tools to make it the best all-around solution.

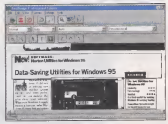


Tame the Paper Tiger: Caere's OmniPage Pro 6.0 is fast and accurate, with plenty of added tools like scheduled translating sessions, photo-editing, and the ability to bring text straight into any popular word processor.

A. The simple **task buttons** make translating documents as easy as A-B-C.

B. You can **edit text** directly in the program.

C. Photos and graphics are kept in their original places and can be touched up with the included **Image Assistant** photo-editing software.



Econo-OCR: While TextBridge Pro 3.0 matches OmniPage Pro 6.0 in accuracy, it lacks comprehensive add-ins, which makes it a less flexible program.

Read Between the Lines

OmniPage Pro is the longtime OCR leader for good reason: It's simple, fast, and the most complete package around. Along with the regular list of features, you can train it to recognize odd characters, schedule it to transfer a heap of scanned images at a later time, and send recognized text straight into any word processor or spreadsheet without switching applications. As with TextBridge, you can set OmniPage to retain the layout of the original printed page, pictures and all. OmniPage is slightly faster than TextBridge, because it ignores background noise such as black specks on faxed documents. And it's the only package that includes its own photo-editing program, which tells you that OmniPage is serious about maintaining the original layout of the printed page.

TextBridge has its fair share of tricks, as well. Many are similar to OmniPage's, such as the training capability. Its winning feature is the price: It costs about $230 less than OmniPage Pro and sports many of the same major features. TextBridge lacks some of the timesaving extras included in OmniPage, however: There's no scheduling feature, and you can't control details such as saved documents' margins or type sizes.

Speed Scan These two packages are the best OCR programs available. While other leading packages, including ExpertVision's TypeReader Professional and Ligature's CharacterEyes Pro, can hold their own in speed, accuracy, and price, not one offers sophisticated functions like keeping the original page's design intact and plugging the text directly into a word processor.

If you rarely need OCR, the software that shipped with your scanner should suffice. But if you yearn for a true paperless office, you'll need the features that a full-blown OCR package offers. While TextBridge is a good value, OmniPage offers the ultimate in OCR. If you already have an OCR package from Caere, go with OmniPage's upgrade and save $350. For large-scale document-management needs, OmniPage offers all the flexibility and speed you could ask for. JACK LYON

FILEBOX

OmniPage Pro 6.0

Usability ★★★★½
Technology ★★★★
Verdict ★★★★½
Strong and flexible: a very affordable competitive upgrade.

System Requirements: Windows 3.1 or later, 386 CPU, 8MB of RAM, 12MB of hard disk space.

$499 est. street price; $149 for competitive upgrade
Caere Corp.
(800) 535-7226 ext. 110, (408) 395-7000
Reader Service No. 649

TextBridge Pro 3.0

Usability ★★★★
Technology ★★★★
Verdict ★★★★
Simple, inexpensive, and accurate, but not as flexible as OmniPage Pro 6.0.

System Requirements: Microsoft's Word or Novell's WordPerfect for Windows, 386 CPU, 8MB of RAM, 7.5MB of hard disk space.

$270 est. street price, $149 for upgrade
Xerox Corp.
(800) 248-6550, (508) 977-2000
Reader Service No. 650

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

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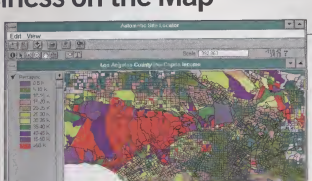
Put Your Business on the Map

When you need to focus your regional marketing efforts, few tools are as valuable as mapping software. Unfortunately, not only do you need to purchase a software mapping program, but you need suitable data to enhance the information. Wessex's First St. provides an economical solution. It's a bundle of Sybase's ArcView 2 and ESRI's $995 Geographic Information Software with 16 CD-ROMs chock-full of geographic information.

Ten of the CDs include census-mapping data. The remaining six feature demographic data based on the 1990 United States census.

In addition, there's one applet that transfers geographic data to your hard disk in a format that ArcView can use, and another that transfers demographic data to dBASE-format data tables. Building a map is as easy as transferring these two data types, loading them into ArcView, selecting the common geographic code columns, and joining them together.

MapInfo's Street Info, a competitor, costs $6,300. Wessex's First St., at just under $2,000, is a real bargain. BARRY SIMON



In the Neighborhood: Using First St.'s mapping tools and the supplied data, it's easy to create maps that convey information such as per capita income.

FILEBOX

First St.

Usability ****
Technology ***½
Verdict ****
Fine mapping tools at an affordable price.

Competition: MapInfo offers SQL support and mixed charts and maps, but at a higher price.

System Requirements: Windows 3.1, 486 CPU, 16MB of RAM, CD-ROM drive.

Online: Join Barry Simon and *PC Computing*'s Senior Online Editor Yael Li-Ron for a GIS discussion on PC Contact during the week of December 4 (see page 366 for logon instructions).

$1,995 est. street price
Wessex
(800) 892-6906, (708) 501-3662
Reader Service No. 651

ASAP

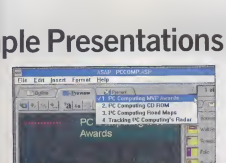
Keep-It-Simple Presentations

Simple is good—particularly when you're working under pressure to produce a winning sales presentation. With that in mind, Software Publishing created ASAP, a bare-bones presentation package with simple menus and features. Sure, you sacrifice the power and fancy features that come with full-blown programs like Software Publishing's Harvard Graphics or Lotus's Freelance Graphics. But if getting the job done quickly and easily is what matters, ASAP has you covered.

Out of the box, ASAP is not intimidating. It ships on two floppy disks—perfect for the frequent traveler who needs to conserve notebook disk space. Install ASAP and you're plunged right into the text-centric outline mode. ASAP also adds an icon to your word processor's toolbar that lets you send text from your word processor to an ASAP presentation. Importing basic text documents isn't perfect, but with minor tweaking, you can make your presentation look great.

ASAP has several sample presentations with tips for using the product and creating presentations, but it lacks a tutorial. In addition, ASAP is plagued by the old Windows Help system. Innovation in this area (like adding natural-language queries) would be a plus.

Nevertheless, if you need to create presentations fast, ASAP is a fine solution. What it lacks in power it makes up for in simplicity and ease of use. KYLA K. CARLSON



Quick and Easy: ASAP offers an unpretentious and accessible interface for creating presentations.

FILEBOX

ASAP

Usability ****
Technology ***
Verdict ****
A quick and simple way to create effective presentations.

Competition: No entry-level competitors. Presentation-graphics software packages such as Software Publishing's Harvard Graphics and Lotus's Freelance Graphics offer more features and greater complexity.

System Requirements: Windows 3.1 or later, 386 CPU, 1MB of RAM, 2.4MB of hard disk space.

$99 est. street price
Software Publishing Corp.
(408) 986-8000
Reader Service No. 652

Guide to the Ratings: ***** *Excellent* **** *Good* *** *Acceptable* ** *Poor* * *Unacceptable*

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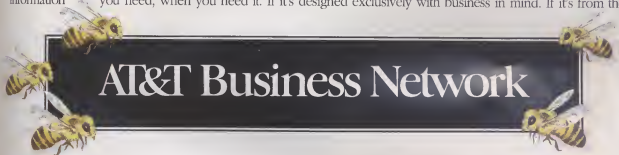

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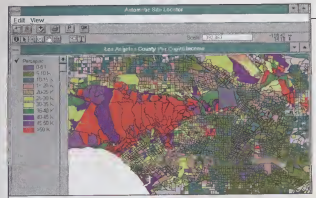

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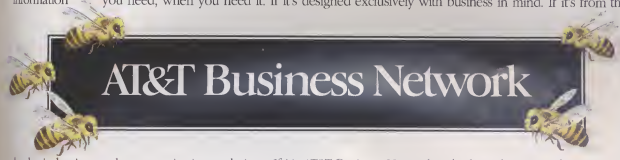

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ComNet, CreditCard, EtherLink III, Marquis

LAN-Modem Cards: Two-for-One Access

SNEAK PREVIEW

For serious business nomads, it's a hassle to connect to a LAN and the Net at the same time. With only one PC Card slot, you have to log off, eject your LAN adapter, insert your data-fax modem, and reboot. Getting back on the LAN is equally cumbersome.

Four new hybrid cards—ActionTec's ComNet 28.8 Fax/Modem+Ethernet combination card, Xircom's CreditCard Ethernet+Modem 28.8, 3Com's EtherLink III LAN+Modem PC Card, and Motorola's Marquis PCMCIA 28.8 Modem/Fax/LAN adapter—deliver simultaneous LAN and modem access in one PC Card.

Easy Troubleshooting

Xircom's CreditCard marks the vanguard of LAN-modem PC Cards. It was a no-brainer to install, set up, and configure thanks to its network operating system (NOS)-specific user's guide. And while competitors include troubleshooting information, only the CreditCard has a complete troubleshooting guide with notebook-specific card- and socket-services information and CONFIG.SYS and INI file examples.

Because of Xircom's Look-Ahead Pipelining technique to enhance Ethernet throughput, downloading CompuServe files and saving them to our NetWare network was quick and easy.

3Com's EtherLink III also performed well in our tests, letting us easily download a CompuServe file and save it to a drive on our network.

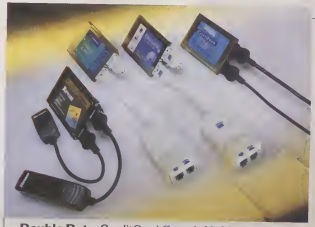
EtherLink III bundles Delrina's WinFax and WinComm Lite 4.0, and includes a copy of 3Com's EtherDisk 5.0, which contains drivers for eight popular NOSs including NetWare and Windows for Workgroups.

Twins Motorola's Marquis and 3Com's EtherLink III are identical cards with different brand names and different software. The Marquis includes Smith Micro's QuickLink; the EtherLink III has Delrina's WinFax and WinComm Lite. Both cards include Simple Network Management Protocol (SNMP) and provide unlimited toll-free support.

Little-known ActionTec's ComNet surprised us with easy installation and start-up, decent performance, and lots of bundled software.

The ComNet card bundles Mosaic in a Box, CompuServe, America Online, Cheyenne's BitWare fax-data software, Starfish's Sidekick, McAfee's VirusScan, and Traveling Software's LapLink. For only $439, the ComNet is the least expensive of the bunch.

Any of these cards will solve the LAN-modem card-swap. The Marquis and EtherLink III are the same except for their software and represent a marriage of Motorola's modem expertise and 3Com's network knowledge—both are reliable options. ActionTec's ComNet includes a ton of great software. But the overall best choice for technology, performance, and ease of use is Xircom's CreditCard. RICH SCHWERIN



Double Duty: CreditCard (from left), Marquis, EtherLink III, and ComNet let you connect to the network and dial out via modem at the same time.

PICKS SPEEDY CONNECTIONS

Quick and easy LAN-modem performance	CreditCard
Low-price leader with tons of bundled software	ComNet
Solid networking and modem technology	EtherLink III and Marquis

FILEBOX

ComNet
Usability ★★★★½
Verdict ★★★★
Great choice for all the extras.

$439 est. street price
ActionTec Electronics
(800) 797-7001, (408) 739-7000
Reader Service No. 643

CreditCard
Usability ★★★★★
Verdict ★★★★★
The hands-down winner for usability and speed.

$484 est. street price
Xircom
(800) 438-4526, (805) 376-9300
Reader Service No. 644

EtherLink III
Usability ★★★★
Verdict ★★★★
Solid network-modem combo.

$559 est. street price
3Com Corp.
(800) 638-3266, (408) 764-5000
Reader Service No. 645

Marquis
Usability ★★★★
Verdict ★★★★
Solid modem-network hybrid.

$559 est. street price
Motorola
(800) 427-2824, (205) 430-8000
Reader Service No. 646

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

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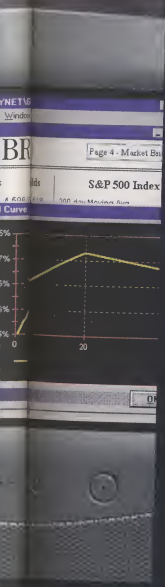
rde pork bellies and
afutures in my boxers.



With my new Acer® Aspire™ Desktop, I can take on Wall Street

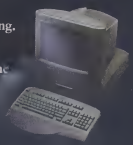
Aspire. To Do More.

from home. Aspire has Windows® 95, an Intel® Pentium® processor[1]

and 16MB of memory[1], so I can explore complex "what if"

trading scenarios. With its voice-activation capability, I can

get into my financial programs without typing.



The 28.8kbps fax modem[1] and speakerphone

A few more things

help me cut deals over the phone or online.

I can do with my Aspire:

And with built-in voice mail, I never miss a call. I can even

Order out for pizza.

calculate my net worth or improve my golf swing, because

Manage my own portfolio.

Aspire includes 50 preloaded software and reference titles.

Design an addition to my home.

Plus, the five-speed CD-ROM[1] drive, AuraSound™ 3-D stereo

Lower my handicap.

speakers and accelerated graphics are terrific for multimedia.

Download financial articles online.

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PC WORLD JUNE 1995 BYTE BEST OVERALL V.34 EXTERNAL MODEM

ProClass 288 LCD V.34

New Estimated Street Price: $359

PC WORLD June 1995
BEST BUY

- "the best combination of price, performance, features, and support"... way ahead of the pack."
- "best overall value in a V.34 modem."
- "the clear Best Buy in this roundup."

BYTE/NSTL LAB REPORT June 1995
BEST OVERALL

- "top honors in almost every aspect of our benchmarks."

EDITORS' HOME OFFICE PICK

COMPUTERWORLD

ProClass 288 MT V.34

New Estimated Street Price: $289

Practical Class 288 Mt II V.34

New Estimated Street Price: $199

HOME OFFICE COMPUTING Jan. 1995
EDITORS PICK AWARD

- "represents the cutting edge of today's telecommunications technology... and better priced."

PC MAGAZINE March 14,1995

- "it's performance out distances even much more expensive modems."
- "by far a top performer overall."
- "best - performing modem."

COMPUTERWORLD JUNE 1995 BYTE BEST OVERALL V.34 EXTERNAL MODEM POWERLABS ANALYST'S CHOICE DEC 28, 1994 Mobile FIRST CLASS

ProClass 288 EZ-Port™

New Estimated Street Price: $289

PC WEEK April 3, 1995
ANALYST CHOICE

- "provided the most efficient built-in power management."
- "best combination of price and performance."

BYTE/NSTL LAB REPORT June 1995
BEST OVERALL

- "the modem ran extremely well, finishing first in our PC Card fax testing."

When it comes to value, industry editors and buyers think Practical. Our latest line of high-speed modems has been capturing all the awards, making Practical an incredible value. And with 7 day technical support and a lifetime limited warranty,* you will be very satisfied. For more information on the complete line of Practical modems, call PRACTIFAX at 800-225-4774 and select Document #3015, or call 800-964-2937, Ext. 610 for a dealer referral.

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*Five year warranty on PCMCIA modems.

Circle 253 on reader service card.

The 1,001 Best Web Sites

TOP PICKS

NASA Spacelink
spacelink.msfc.nasa.gov/

NCSA What's New Page
gnn.com/gnn/wn/whats-new.html

Hollywood Online
www.hollywood.com/

Federal Express
www.fedex.com

ESPNet SportsZone
espnet.sportszone.com/

The Ultimate Collection of Winsock Software
www.tucows.com

Underground Music Archive
www.iuma.com

WebMuseum
mistral.enst.fr/wm/net

Virtual Frog-Dissection Kit
george.lbl.gov/vfrog/

Discovery Channel
www.discovery.com/

Feel like you've been cybersurfing the same wave for months? Does your bookmark list contain so many circular references that you're getting dizzy? You're not alone. Most people stumble onto interesting sites by accident. What you really need is a guide that takes you right to the good stuff, and that's exactly what we've created.

Our editors spent weeks combing the Web to find the 1,001 hottest, most informative sites, and grouped them into more than 100 popular-interest categories for easy reference. From art and literature to sports and travel, all the best Web addresses are here. To get you started, we've listed our favorite points of interest. We think these sites are a great sampling of all the Web has to offer. Once you've whetted your appetite with these, you'll have to dive into the rest.

BY THE PC COMPUTING STAFF

Art & Literature

Architecture

Architectour www.rahul.net/arctour/
Art and Architecture english-www.hss.cmu.edu/Art.html
Art Nouveau Biographies www-stud.enst.fr/~derville/AN/authors.html
Frank Lloyd Wright Page www.mcs.com/~tgiesler/flw_home.htm
Lighthouses http2.sils.umich.edu/~superman/LIGHTHOUSE/LightHome.html
McGill School of Architecture's siteX architecture.mcgill.ca/siteX/homepage.html
New Hampshire's Covered Bridges vintagedb.com/guides/covered.htm
Southeastern Architectural Archive www.tulane.edu/~lmiller/SEAAHome.html
Unauthorized Glasgow 1999 Homepage www.colloquium.co.uk/www/eponym/glasgow_1999/intro.html
Virtual Architecture www.gold.net/oneday/arch/onevarch.html

Classic Literature

Dracula www.cs.cmu.edu/Web/People/rgs/drac-table.html
Gramercy Press www.mci.com/gramercy/intro.html
Jack Kerouac www.lehigh.edu/~nat2/kerouac.html
James Joyce in Cyberspace astro.ocis.temple.edu/~callahan/joyce.html
Jane Austen Info Page uts.cc.utexas.edu/~churchh/janeinfo.html
J. R. R. Tolkien www.lights.com:80/tolkien/rootpage.html
Mark Twain Resources web.syr.edu/~fjzwick/twainwww.html
Poe Page www.et.byu.edu/~conradt/poepage.html
Rossetti Archive jefferson.village.Virginia.EDU/rossetti/rossetti.html
Sherlock Holmes www.cs.cmu.edu/afs/andrew.cmu.edu/usr18/mset/www/holmes.html
Sleepy Hollow www.en.utexas.edu/~daniel/amlit/sleepy/sleepy.html
Walt Whitman www.cc.columbia.edu/acis/bartleby/whitman

Contemporary Literature

Anne Rice www.cyserv.com/pttong/rice.html
Douglas Adams www.galcit.caltech.edu/~jdavis/hhgttg.html
Howard Rheingold www.well.com/user/hlr/
Jack Vance www.stack.urc.tue.nl/~remy/
John Grisham www.bdd.com/athwk/bddathwk.cgi?w=06-19-95
Joyce Carol Oates www.usfca.edu/usf/southern/jco.html
Michael Crichton tam2000.tamu.edu/~cmc0112/crichton.html
Piers Anthony www.best.com/~wooldri/awooldri/Xanth.html
Raymond E. Feist www.wol2woll.com/REF/
Stephen King www.cat.pdx.edu/~caseyh/horror/author/king.html
William Gibson www.vkool.com/gjbson/netindex.html

Fine & Graphic Arts

@art gertrude.art.uiuc.edu/@art/gallery.html
Art Comic www.cais.com/artcomic/home.html
Art Crimes www.gatech.edu/desoto/graf/Index.Art_Crimes.html
ArtNetWeb www.awa.com/artnetweb/
Art of Jan Vermeer www.ccsf.caltech.edu/~roy/vermeer/
ArtServe rubens.anu.edu.au/
ArtSource www.uky.edu/Artsource/artsourcehome.html
Art Space www.uni.uiuc.edu/departments/finearts/art/artspace/uniartspace.html
Arts Wire www.tmn.com/0h/Artswire/www/awfront.html
Beyond the Wow Factor www.staffs.ac.uk/arts/fine_art.html
HypArt rzsun01.rrz.uni-hamburg.de/cgi-bin/HypArt.sh

Museums

Andy Warhol Museum www.warhol.org/warhol/
Dallas Museum of Art Online www.unt.edu/dfw/dma/www/dma.htm
Egyptian Papyrus Collection www.lib.umich.edu/pap/HomePage.html
Field Museum of Natural History www.bvis.uic.edu/museum/
Galleria Ricci Oddi Piacenza www.dea.polimi.it/ricci/welcome.htm
High Museum of Art isotropic.com/highmuse/highhome.html
National Museum of American Art www.nmaa.si.edu/
National Museum of the American Indian www.interport.net/~logomanc/heye.html
Philadelphia Museum of Art www.libertynet.org/~pma/
Stone Age Cave Paintings www.culture.fr/culture/gupda-en.htm
WebMuseum mistral.enst.fr/wm/net
World Art Treasures sgwww.epfl.ch/BERGER/

Shakespeare

Alabama Shakespeare Festival www.wsnet.com/~pr4bard/asf.html
Collected Works of Shakespeare www.gh.cs.usyd.edu.au/~matty/Shakespeare/index.html
Complete Works the-tech.mit.edu/Shakespeare/
Entrance to the Shakespeare Web www.shakespeare.com
Richard III www.webcom.com/~blanchrd/gateway.html

Business

Airlines

Aeroflot www.seanet.com/Bazar/Aeroflot/Aeroflot.html
American Airlines www.amrcorp.com/aa_home/aa_home.htm
Canadian Airlines www.cdnair.ca/
Cathay Pacific Airlines www.cathay-usa.com/
KLM—Royal Dutch Airlines www.ib.com:8080/business/klm/klm.html
Lufthansa www.tkz.fh-rpl.de/tii/lh/lhflug-e.html
Mexicana Airlines www.catalog.com/cgibin/var/mx/index.html
Qantas Airways www.anzac.com/qantas/qantas.htm
Southwest Airlines Home Gate www.iflyswa.com/
Swissair www.swissair.ch/
United Airlines Flight Center www.uaifltctr.com/

Careers

Academe This Week chronicle.merit.edu/.ads/links.html
America's Job Bank www.ajb.dni.us/
Career Magazine www.careermag.com/careermag/

Sites Online: Check out all 1,001 sites via hotlinks on our Web page at www.zdnet.com/~pccomp. (See page 366 for log-on information.) Note that most browsers need only the address. With others, you may have to type the prefix http:// followed by the URL listed in these pages. For example, to reach *PC Computing*'s Web page, type http://www.zdnet.com/~pccomp.

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CareerMosaic	www.careermosaic.com/cm/cm12.html
careerWeb	www.cweb.com/
E-Span Employment Database	www.espan.com/cgi-bin/ewais/
Heart Career Connections	www.career.com/
HiTechCareers	www.hitechcareer.com/hitech
JobCenter	www.jobcenter.com/
Jobs in Consulting	www.cob.ohio-state.edu/dept/fin/consult.htm
Jobs Online	www.ceweekly.wa.com/
Kansas Mentor Project	www.ksu.edu/~dangle/
Monster Board Career Site	www.monster.com/
Online Career Center	www.occ.com/
TalkPower Training Programs	com.primenet.com/seminars/
Training and Development Job Mart	www.tcm.com/trdev/jobs/

Finance

Barclaycard	www.barclaycard.co.uk
Charles Schwab Online	www.schwab.com/
Chicago Mercantile Exchange	www.cme.com
Daily Stock Market Data	www.ai.mit.edu/stocks/prices.html
Fidelity Investments	www.fid-inv.com
FinanceNet	www.financenet.gov
MasterCard	www.mastercard.com
NetWorth	networth.galt.com/www/home/networth.html
SEC EDGAR Database	town.hall.org/edgar/edgar.html
Wells Fargo	www.wellsfargo.com

Insurance

Aetna Life and Casualty	marketplace.internetMCI.COM/marketplace/aetna
Allstate Motor Club	www.shopping2000.com/shopping2000/allstate/
Armed Forces Insurance	www.afi.org/
Great-West Life and Annuity Insurance	www.gwla.com/
ITT Hartford Insurance	www.ithartford.com/
Kansas City Life Insurance	www.omg.com/KCLife/kclife.htm
Nationwide Insurance	www.nationwide.com/
Old Line Life Insurance	www.oldline.com
Progressive Insurance	www.auto-insurance.com/

Reference

Bartlett's Familiar Quotations	www.cc.columbia.edu/acis/bartleby/bartlett/
Britannica Online	www.eb.com/
CEDAR National Address Server	www.cedar.buffalo.edu/adserv.html
Cool Jargon of the Day	www.britech.com/jargon/cool

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spacelink.msfc.nasa.gov/

Hypertext Webster Interface	c.gp.cs.cmu.edu:5103/prog/webster
U.S. Postal Rates	www.pitneybowes.com/rates/rates.htm
Virtual Library: Law Schools & Libraries	www.law.indiana.edu/law/lawschools.html

Resources

AT&T	www.att.com
AT&T 800 Directory	att.net/dir800
Better Business Bureau	www.bbb.org/bbb/
BizWeb	www.bizweb.com
Federal Express	www.fedex.com
MCI Small Business Center	www.mci.com
National Business Association	www.natlbiz.com/~douglas/INDEX.HTML
United Parcel Service	www.ups.com
ZDNet	www.zdnet.com/

Computers

Hardware Companies

Apple Computer	www.apple.com
Compaq Computer Corp.	www.compaq.com
Conner Peripherals	www.conner.com/
Dell Computer Corp.	www.dell.com
Digital Equipment Corp.	www.dec.com
IBM	www.ibm.com
Intel Corp.	www.intel.com
Motorola	www.motorola.com
Silicon Graphics' Silicon Surf	www.sgi.com
Sun Microsystems	www.sun.com

Multimedia

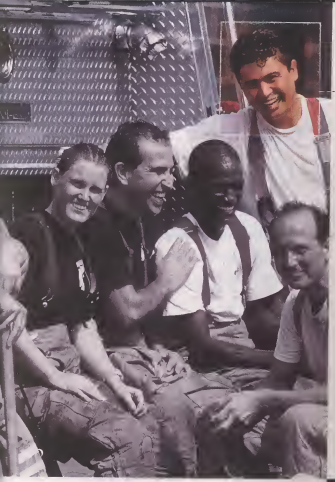
Anima	wimsey.com/anima/ANIMAhome.html
Arc, The Interactive Media Festival	arc.org
Digital Tradition Folk Song Database	web2.xerox.com/digitrad/
Inter Actions Exhibit	math240.lehman.cuny.edu:80/art/
Virtual Radio	www.microserve.net/vradio
Virtual World Digital Theme Park	www.virtualworld.com

Networking Companies

3Com	www.3com.com
Banyan Systems	www.banyan.com/
Cisco Systems	www.cisco.com/
Farallon Computing	www.farallon.com/
Hayes Microcomputer Products	www.hayes.com/
Morning Star Technologies	www.morningstar.com/
Proteon	www.proteon.com/
Rockwell Network Systems	www.rns.com/
Shiva Corp.	www.shiva.com/
Standard Microsystems Corp.	www.smc.com/
Supra Corp.	www.supra.com
U.S. Robotics	www.usr.com

Search Engines

All-in-One Search Page	www.albany.net/~wcross/all1srch.html
CUSI Search Engine	pubweb.nexor.co.uk:public/cusi/cusi.html
Four11 Online User Directory	www.Four11.com/
Harvest	harvest.cs.colorado.edu



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InfoSeek Net Search www2.infoseek.com/
Lycos Home Page lycos.cs.cmu.edu/
NlightN www.nlightn.com
Open Text Web Index www.opentext.com:8080/omw.html
WebCrawler Searching webcrawler.com/
Web Robot List web.nexor.co.uk/mak/doc/robots/active.html
World Wide Web Worm www.cs.colorado.edu/home/mcbryan/WWWW.html
Yahoo: A Guide to the WWW www.yahoo.com

Software Companies

Adobe Systems www.adobe.com
Attachmate www.atm.com
Autodesk www.autodesk.com
Borland International www.borland.com
Microsoft Corp. www.microsoft.com
Novell www.novell.com
Quarterdeck Home Page www.qdeck.com/
Symantec Corp. www.symantec.com

Web Authoring

Beginner's Guide to HTML www.ncsa.uiuc.edu/General/Internet/WWW/HTMLPrimer.html
Composing Good HTML www.cs.cmu.edu/~tilt/cgh/
Elements of HTML Style bookweb.cwis.uci.edu:8042/Staff/StyleGuide.html
Free Art for HTML Pages www.mcs.net/~wallach/freeart/buttons.html
Help File for HTML 2 www.synapse.net/~ysor/html2gid.htm
HTML Authors Toolkit www.obscure.org/~jaws/htmltoolkit.html
HTML, The Complete Guide www.chem.emory.edu/html/html.html
Webmasters Guild www.webmaster.org/
Writing Documents for the Web www.ziff.com/~eamonn/crash_course.html

Web Information & Help

City of Bits www-mitpress.mit.edu/City_of_Bits/
Cool Site of the Day www.cool.infi.net/
Digital City www.viper.net:80/fun/dc/
NCSA What's New Page gnn.com/gnn/wn/whats-new.html
Virtual Library www.w3.org/hypertext/DataSources/bySubject/Overview.html
Virtual Tourist World Map wings.buffalo.edu/world/
WebOvision www.catalog.com/media/sd/web'o'vision.html
World Wide Web Initiative www.w3.org/hypertext/WWW/TheProject.html

Web Security

I Broke Hal's SSL Challenge pauillac.inria.fr/~doligez/ssl/
IETF Web Transaction Security Working Group www-ns.rutgers.edu/www-security/wts-wg.html
NCSA: Using PEM/PGP hoohoo.ncsa.uiuc.edu/docs/PEMPGP.html
Rutgers' Security Page www-ns.rutgers.edu/www-security/reference.html
SATAN Beta Review ciac.llnl.gov/ciac/ToolsUnixNetSec.html Satan
Secure HTTP www.eit.com/creations/s-http/
Secure Sockets Layer Protocol www.netscape.com/info/SSL.html
Security Mailing List Archives asearch.mccmedia.com/www-security.html
Security Tools ciac.llnl.gov/ciac/ToolsUnixNetSec.html

Web Utilities

NCSA Mosaic Home Page www.ncsa.uiuc.edu/SDG/Software/Mosaic/NCSAMosaicHome.html
Netscape home.netscape.com/
RealAudio www.realaudio.com

Ultimate Winsock Collection www.tucows.com
WebMaker www.cern.ch/WebMaker/
Webmaster's Starter Kit wsk.eit.com/
WebStat Demos www.huntana.com/webstat/index/html
Web Tools and Help Files www.cs.fsu.edu/wwwhelp.html
Web Watch www.specter.com/users/janos/specter/webwatch.html

Food & Drink

Alcoholic Beverages

Bearboat Pinot Noir www.bearboat.com/
Beer Master's Home Page beermasters.com/beermasters/
Clos LaChance Winery www.commerce.com/clos/clos-top.html
Edinburgh Malt Whisky Tour www.dcs.ed.ac.uk/home/jhb/whisky/
Internet Wine Rack www.clark.net/pub/wine/home.html
Marin Brewing Company and.com/mbc/mbc.html
Spencer's Beer Page www.umich.edu/~spencer/beer/
Virtual Pub lager.geo.brown.edu:8080/virtual-pub
Virtual Vineyards virtualvin.com/

Candy

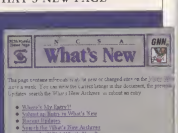
Barbra Jean's Famous Candies www.wwa.com/~bjcandy/
Cajun Country Candy www.interpreneur.com/classified/moser.html
Candy Blossoms www.candyblossoms.com/
Chocolate Factory mmink.cts.com/mmink/dossiers/choco.html
Godiva Chocolatier www.godiva.com
Hershey's Chocolate www.hersheys.com/~hershey/
Maxim's www.ippi.com/maxim.html
Pez Home Page www.cs.ucdavis.edu/~telford/pez.html

Coffee & Caffeine

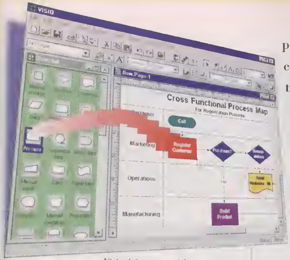
American Coffee & Espresso www.bid.com/bid/cima/
Brothers Gourmet Coffees pwr.com/brothers/brother1.html
Café Gourmet www.usit.net/cafegour.html
Café Mam mmink.com/mmink/dossiers/cafemam.html
Caffeine Archive www.quadralay.com/www/Caffeine/Caffeine.html
Coffee Tea & Spice www.best.com/~biholmes/coffeeandtea/
Galaxy of Coca-Cola—Coca-Cola Company Home Page www.cocacola.com/
Harvard Espresso Company www.coffees.com/
Seattle's Best Coffee www.halcyon.com/sbc/sbc.html
World of Tea www.stashtea.com/~tea/

TOP PICK NCSA WHAT'S NEW PAGE

Want to know what's the latest and greatest on the Web? Look no further than NCSA's What's New page. Make a habit of visiting at least every other day and you'll be the big kahuna of Web surfers.



gnn.com/gnn/wn/whats-new.html



Visio 4.0 comes with over 1,000 pre-drawn SmartShapes on 29 task-specific stencils. To create diagrams, just drag SmartShapes onto the drawing page, connect, add text and voilà. You're done.

When it comes to clarifying and managing your organization, processes and information, nothing does the job like clear, concise diagrams. Problem is, creating them can take more time and patience than you have to spare. Until now.

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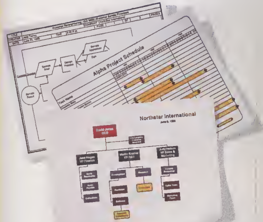
WARNING!

DIAGRAMMING WITH NEW VISIO 4.0 CAN BE EXTREMELY HABIT FORMING.



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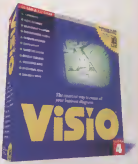

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YOU COULD READ THE COMPLETE REPORTS BY TWO INDEPENDENT LABS ON THEIR TESTS OF THE LEADING V.34 MODEMS.

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IN THE MEANTIME, HERE'S THE EXECUTIVE SUMMARY:

BUY THE SPORTSTER.

Just in case you missed it, two leading independent research companies put some of the leading external V.34 modems through their paces.

They measured compatibility, connect success rate and throughput. They tested under good line conditions and bad. They made all the modems connect with one another in every possible combination. They pushed them to their maximum rated speeds, over a wide range of line conditions. Finally, they measured how much data was delivered without error.

The U.S. Robotics Sportster with *True* V.34™ beat the other modems cold. In test after test, Sportster scored significantly higher than competing modems. In fact, the Sportster proved more compatible with other modems than some brands were with themselves.

But don't believe everything you read in an ad. Call U.S. Robotics for the research highlights or a summary report on the test methods and findings.

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You can also reach us at: sales@usr.com support@usr.com http://www.usr.com

BYTE ★★★★½ SOFTWARE ETC. SOFTWARE MAGAZINE 5.0 RATING

Sportster
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Cooking

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Cajun Recipe Page www.webcom.com/~gumbo/recipe-page.html
Cheese Page corsa.ucr.edu/~formy/cheese.html
Chile-Heads chile.ucdmc.ucdavis.edu:8000/www/chile.html
Electronic Gourmet Guide www.2way.com/food/egg/index.html
Hot Hot Hot www.hot.presence.com/g/p/H3/index/html
Ragú Presents—Mama's Cucina www.eat.com
Recipes Folder english-server.hss.cmu.edu/recipes.html
Weird Recipes www.twics.com/~sabu/roadkill.html

Junk Food

Bickel's Potato Chips www.flowerlink.com/html/bickels/bickels.html
Cornnuts Info www.PrimeNet.Com/~lambda/cornnuts.html
Frito-Lay Home Page www.fritolay.com/
Jellophile Volume 1 sundry.hsc.usc.edu/hazel/www/jello.html
Strawberry Pop-Tart Blowtorches www.sci.tamucc.edu/%7Epmichaud/toast/

Pizza

Internet Pizza Server www.ecst.csuchico.edu/~pizza/
Panzerotto Pizza's Virtual Pizzeria pizza.idirect.com/
Papa John's Pizza www.traveller.com/papajohns/
Perfect English Muffin Pizza www.ganet.net/~ps2/pizza.html
Theo's Foods webcom.com/~pets/theo/
Welcome to Pizza Hut www.pizzahut.com/

Restaurants

Dining Out on the Web www.ird.net/diningout/html
Internet Restaurant Guide USA super.hwy.com/RestaurantGuide.html
L.A. Dining ladining.com/
MenuNet Food Finder www.foodfinder.com/
S.F. Chronicle Dining Guide sfgate.com/new/schron/food/index.html
Source Restaurant Guide sddtsun.sddt.com/files/lifestyle/eats.html
Waiters on Wheels www.ird.net/cgi/get?wow/index

Vegetarian & Health Food

Harvest Burgers email.com/Harvest/Harvest1.html
Herbal Care www.ip.net/HC/home.html
International Food Information Council ificinfo.health.org/
North American Vegetarian Society mars.superlink.com/user/dupre/navs/index.html
Toronto Vegetarian Association www.interlog.com/~tva/home.html
Vanita's Table pages.prodigy.com/WA/vanita/
Vegan Action envirolink.org/arrs/va/home.html
Vegetarian Resources lucky.innet.com/~kathiw/veg.html
Veggies Unite www.honors.indiana.edu/~veggie/recipes.cgi/

Government

International

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China Home Page www.ihep.ac.cn/china.html
Embassy of Iceland www.globescope.com/web/iceland/index.html
Estonia Country Guide sun.nlib.ee/ESTCG/estcg.html
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G7NewsWeb G7NewsWeb.softquad.opentext.com:8888/
Government Information in Canada www.usask.ca/library/gic/index.html
Hashemite Kingdom of Jordan iconnect.com/jordan/
Hong Kong Home Page www.hongkong.org

United States—State

Florida Legislature www.scri.fsu.edu/fla-leg/
Illinois Environmental Protection Agency www.epa.state.il.us/
Information Network of Kansas www.ink.org/
Massachusetts Access to Government Information www.magnet.state.ma.us/
Michigan House of Representatives www.house.state.mi.us/
Senate of Pennsylvania www.psen.gov/
State of Hawaii hinc.hinc.hawaii.gov/soh_home.html
State of North Carolina—Public Information Page www.sips.state.nc.us/
Washington State Information Guide olympus.dis.wa.gov/www/wahome.html

United States—Federal

Centers for Disease Control and Prevention www.cdc.gov
Central Intelligence Agency www.odci.gov/
Department of Agriculture www.usda.gov
Department of Education www.ed.gov/
Department of Energy apollo.osti.gov/home.html
Department of Health and Human Services www.os.dhhs.gov
Federal Bureau of Investigation www.fbi.gov/
FedWorld Information Network www.fedworld.gov/
House of Representatives www.house.gov
Supreme Court Decisions www.law.cornell.edu/supct/supct.table.html
White House www.whitehouse.gov

U.S. Military

Air Force www.af.mil/
Air Force Office of Scientific Research web.fie.com/web/fed/afr
Army www.army.mil/
Army Corps of Engineers www.usace.mil/
Coast Guard www.webcom.com/~d13www/welcome.html
DefenseLink www.dtic.dla.mil:80/defenselink/
Department of Defense IS Technology disa11.disa.atd.net/index.html
Navy www.navy.com
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MODEM TEST RESULTS

How does U.S. Robotics Sportster stack up against other leading V.34 28.8 modems?

OFF THE SHELF, OUT OF
TWO INDEPENDENT LABS PUT

THE THREE CRITICAL TEST PARAMETERS: **COMPATIBILITY**

ARE ALL V.34 28.8 MODEMS CREATED EQUAL?

That was the question tackled by two independent testing labs — TeleQuality Associates of Golden, Colorado, and Henderson Communications Laboratories, Inc. of Moreno Valley, California.

While each testing facility used a different methodology and tested different units, both set out to rate the performance of the popular, best-selling external V.34 modems. Compatibility, connect rates, and how often maximum speeds were reached and maintained, were documented. The labs analyzed how effectively each manufacturer engineered its V34 modems, and how well each one realized the potential of this new technology under real-world conditions.

All units were comparably equipped and the latest version available. To eliminate any bias that might occur when testing between like modems, i.e. Sportster to Sportster, all tests by both labs employed a full compatibility test matrix: every modem was tested with every modem. In order to do well, each modem would have to successfully handle the quirks of all the others in both answer and originate modes.

First, an overview of TeleQuality's procedures:

The connect success rate tests were made with low, medium and high signal levels and incrementally varied noise from low to high. These tests were repeated over both a good (flat attenuation) and a bad (high rolloff 3002) phone line. All modems were pushed to their functional limits with 15 call cycles performed at each signal-to-noise (SNR) point. The percentage of successful connections for each SNR point was measured and graphed for all combinations of modems.

The performance tests were completed with the same types of phone lines, under the same SNR conditions using a highly compressible file transferred in both directions simultaneously. Again, the speed of the error-free data transfer was measured and graphed for all phone line and SNR points on all combinations of modems.

What follows on these two pages is a closer look at the results of the TeleQuality testing. On the back page are highlights of the Henderson test results.

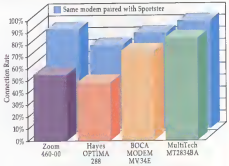
In both tests the bottom line says the same thing: buy a Sportster.

SPORTSTER OUTPERFORMS THE PACK IN COMPATIBILITY.

In order for modems to interact successfully, and at maximum speeds, each must be capable of assessing and compensating for differences between itself and its counterpart. The ideal modem is sensitive, tolerant and reactive. It identifies connection characteristics and makes the necessary adjustments in order to wring out maximum throughput — regardless of the operational idiosyncrasies of the modem on the other end of the line.

Given the common configuration of two same-brand modems, the ultimate compatibility would be expected when modem "A" is dialed into another modem "A". This study found that was not necessarily the case. In fact, some modems performed better when paired with a more robust competitive modem than when paired with themselves.

PERFORMANCE IMPROVEMENT WHEN PAIRED WITH A SPORTSTER



Connection rate improvement of modems paired with a Sportster compared to modems paired with themselves.

The study revealed that some modems had difficulty connecting to others at optimum speeds. In fact, certain modems showed substandard performance even when connected to themselves.

U.S. Robotics' Sportster displayed the most consistent compatibility with all other modems in the test. ***Interestingly, other modems in the study performed better when connected with the Sportster than when connected to themselves.***

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THE BOX, AND ONLINE THE TOP BRANDS TO THE TEST.

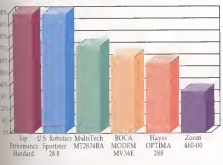
CONNECTIVITY

SPORTSTER SUPERIOR IN CONNECTING AT OPTIMUM SPEEDS.

Because connection success rates can be enhanced at the expense of speed, the lab defined and measured connectivity as a function of connection success and error-free throughput. This measure yields a performance profile more indicative of true user satisfaction — where connecting at optimum speeds with other modems is preferable to connecting at slower data rates.

Connection success rates and throughput scores were combined and normalized to establish a top performance standard (100) in order to show the relative connectivity scores of each modem.

COMPATIBILITY WITH OTHER MODEMS AT OPTIMUM SPEED



Each modem was tested for send/receive throughput in paired combination with every other modem including itself.

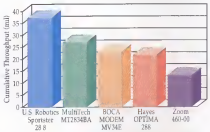
These results showed a great variability in the connectivity of the modems studied. *The U.S. Robotics Sportster outperformed all other modems in the test by demonstrating its ability to consistently connect at optimum speeds.* Differences were quite dramatic with scores for other modems in the study falling from 18% to 64% below that of the Sportster.

THROUGHPUT

SPORTSTER SETS STANDARDS IN THROUGHPUT.

Throughput refers to the maximum amount of data a given modem can transmit over the widest variety of line conditions. Given perfect circumstances, any modem can reach its top speeds and maximum throughput. But end-users do not have the luxury of controlling conditions. Many variables can effect line quality, from geography to simple random channel assignment upon dial-in. Whatever hurdles may be present to impair maximum throughput, better modems sense them and initiate countermeasures to insure peak performance over the widest variety of line conditions.

CUMULATIVE THROUGHPUT OVER VARIED LINE CONDITIONS



Each modem was tested for send/receive throughput in paired combination with every other modem including itself.

The study found that some modems performed significantly better than others in this regard. The top performing modems effectively dealt with connection variables and line noise levels to deliver higher maximum throughput. *In this test, U.S. Robotics' Sportster delivered the most data over the widest variety of line conditions — up to 177% better than other modems.*

y/mustang.html
dealernet.com/
i/delorean.html
nodgrg/Ferrari/
www.ford.com/
r/maserati.html
c.edu/vettenet/
elbp3/cats.html
s/fanciers.html
v/cats/cats.html
sirlou/cat.shtml
ller/FeLV2.html
awski/cats.html
gi-bin/talktocat
tcatalogue.html
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s/cvhome.html
um/home.html
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www.spie.org
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.com/~randall/
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y.edu/dog.html
dogs/dogs.html
s/introdog.html
com/poochnet/
homepage.html
om/~sneakers/
YLE/index.html
signers/p1.html
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ww.fashion.net/
rm.net/~jakec/
yer/index3.html
net.it/maide.htm
k.com/balance/
es/kshome.html
/Fitness/hf.html
nd/metrosports/
retching_1.html
rk/weights.html

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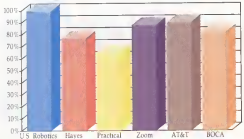
THE FIRST TEST WAS NO FLUKE!

Henderson Communications Laboratories also conducted tests with the leading modems on the market to measure each one's ability to connect and transmit data without error.

"In this study, connect rate performance was measured while attempting 119 connections over a range of test loop combinations as established in the Telecommunications Industry Association TSB-38 and TSB-37A Table 2 standard. A success was recorded each time a connection was established and a short message was transmitted error-free.

The results clearly indicate U.S. Robotics' Sportster's superiority with a 100% connection rate — outperforming the other modems in the study by as much as 36%.

CONNECT SUCCESS RATE



Successful connections to same-brand modems in 119 trials

Another performance measure was throughput. In this phase, each modem's ability to perform in typical asynchronous applications was rated based on its ability to transmit data over a variety of telephone network conditions. A TAS 1200 simulator was used on a select group of test channels, as outlined in TSB-37A Tables 3 through 6, to represent 95% of all possible telephone line types.

The research confirms the performance leadership of U.S. Robotics' Sportster V.34. *Combining its 16% cumulative throughput advantage over the next best modem with a connect success rate up to 41% better than others tested, Sportster clearly provides superior overall performance."*

Henderson Communications Laboratories

CONCLUSIONS & RECOMMENDATIONS

"The V.34 standard offers tremendous promise for enabling new and more powerful applications. However, the V.34 standard carries with it challenging technological demands for modem manufacturers. How well each manufacturer addresses these challenges will ultimately shape the end-user's experience with V.34.

Based on data obtained in this study, it's clear that some modem makers have embraced and managed the complexities of V.34 technology significantly better than others.

The U.S. Robotics Sportster proved that across all modems studied, it consistently delivered on the promises of V.34 — increased compatibility, connect rate and throughput.

Sportster clearly demonstrated its superiority. It is intuitively designed, robustly engineered and flawlessly manufactured."

TeleQuality Associates

FOR MORE INFORMATION* ABOUT THE SPORTSTER V.34 AND THESE INDEPENDENT RESEARCH FINDINGS...

CALL 1-800-DIAL-US

You can also reach us at: sales@usr.com support@usr.com http://www.usr.co

BYTE ★★★★ Computer World YOUR PARTS IN MINUTES! Sportster CONNECT WITH THE WINNER WINDOWS MAGAZINE 1995 WIN 100 #1 World's Best Selling Modem

*Complete test reports available on request

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U.S. Politics

Berkeley College Republicans	www.berkeleyic.com/conservative/
Girvies L. Davis	www.mcs.net/~bkmurph/girvies.htm
NewtWatch	www.cais.com/newtwatch/
Oliver North HomePage	www.links.net1gov/ollie.html
Presidential Hopeful Lamar Alexander	www.Nashville.net/~lamar
Tennessee Governor-Elect	www.inaugural.state.tn.us/sundquist.html
Thomas Jefferson	thomas.loc.gov
Virginia's Race for the Senate	www.infi.net/pilot/senate/index.html

Leisure

Auto Racing

American Racing Scene	www.racecar.com
Grand Prix of Dallas	www.pic.net/grandprix/index.html
ICR Interactive	www.icr.com/indy/default.html
Jacques Villeneuve Home Page	musicm.mcgill.ca/~marc/http/jv.html
Mario Andretti	www.interaccess.com/mcmillan/andretti/index.html
RaceNet	www.primenet.com/~bobwest/index.html
RaceWeb	www.io.org/~raceweb/
Team Nissan	www.deltanet.com/autonet/race/
V-World	www.vmar.com/
Valvoline Garage	www.valvoline.com

Aviation

Air Affair	www.airaffair.com/
AirPage	trex.smoky.ocsd.k12.co.us/~dlevin/air/air.html
Aviation Enthusiast's Corner	www.brooklyn.cuny.edu/rec/air/air.html
Aviation Nova Scotia	fox.nstn.ca/~falcon/aviation.html
Aviation Poetry	www.cyberspace.com/mbrunk/avpoem.html
Avion Online Newspaper	avion.db.erau.edu/
Flying High BBS	www.mcs.net/~teleman/flyhibbs.html
U.K. Aviation Server	www.hiway.co.uk/aviation/aviation.html
Virtual Aviation	www.xs4all.nl/~fsfanbbs/

Cars

4x4 Jeep Page	www.indirect.com/www/a4x4/jeep.html
AM-X Files	worldweb.net/~stoneji/amx.html
AutoWeb	www.autoweb.com/makers.htm
Chrysler Technology Center	www.chryslercorp.com/

TOP PICK FEDERAL EXPRESS

Missing a package? Don't scream at your assistant. Zip to the FedEx page and track it yourself. Here's a fine example of the Web's potential for usefulness.

www.fedex.com

Classic Mustang Page	www.dwx.com/~bob/topics/mustang/mustang.html
DealerNet	www.dealernet.com/
DeLorean Automobiles	www.peak.org/~takeuchi/delorean.html
FerrariNet: The Italian Dream	psciinfo.psc.edu/~rsnodgra/Ferrari/
Ford Motor Company	www.ford.com/
Maserati	www.america.com/~spdracer/maserati.html
VetteNet	www.dcc.edu/vettenet/

Cats

Big Cats Info Page	cc.usu.edu/~slbp3/cats.html
Cat Fanciers	www.ai.mit.edu/fanciers/fanciers.html
Cats on the Internet	http2.sils.umich.edu/~dtorres/cats/cats.html
Feline Information Page	www.best.com/~sirlou/cat.shtml
Feline Leukemia	www.tezcat.com/~ermiller/FeLV2.html
Gallery o' Cats	ux1.cso.uiuc.edu/~zurawski/cats.html
Talk to My Cat	queer.slip.cs.cmu.edu/cgi-bin/talkto cat
World Wide Cats	www.timis.ac.jp/tcat/catcatalogue.html

Charities, Clubs, & Organizations

Carnegie Corporation of New York	www.carnegie.org/carnegie/
Charity Village	www.hilborn.com/HTMLpages/cvhome.html
Habitat for Humanity	www.cwru.edu/CWRU/Org/habhum/home.html
Int'l Federation of Red Cross & Red Crescent	www.ifrc.org/
Int'l Society for Optical Engineering	www.spie.org
John Simon Guggenheim Memorial Foundation	www.gf.org
Make-a-Wish Foundation of America	www.wish.org/index.html
Master Calendar of Charity Events	www.stempler.com/~randall/
Polly Klaas Foundation	www.northcoast.com/klaas/klaas.html

Dogs

Alaska Dog Mushers	polamet.fnsb.ak.us/End_of_Road/dogyard.dir/default.htm
Canine Web	snapple.cs.washington.edu/canine/canine.html
Cornell Canine Page	zoo.vet.cornell.edu/~dlm7/canine.html
Cyber-Dog	www.cyberpet.com/cyberdog/mission.htm
Darr Houssen's Obedience School	www.houssennet.nb.ca/dogworld.htm
Dog Genome Project	mendel.berkeley.edu/dog.html
Dog Home Page	www.sdsmt.edu/other/dogs/dogs.html
Dog Lover's Page	www.petnet.com.au/dogs/introdog.html
PoochNet	www.aescon.com/poochnet/
rec.pets.dogs Home Page	www.zmail.com/pet_talk/dog-faqs/homepage.html

Fashion

Charlie's Sneaker Pages	www.neosoft.com/~sneakers/
CNN Style	www.cnn.com/STYLE/index.html
Designers Magazine	cedrom-sni.qc.ca/~designers/p1.html
Fabulous Fashion Tips	www.sils.umich.edu/~sooty/fashion.html
Fashion Net	www.fashion.net/
Fashion Page	www.charm.net/~jakec/
La Mode de Marin	acs5.gac.peachnet.edu/~jmeyer/index3.html
Made in Italy OnLine	www.flashnet.it/made.htm

Fitness

Balance Magazine	tito.hyperlink.com/balance/
Different Bodybuilding Page	www.li.net/~rbfitnes/kshome.html
Health & Fitness Worldguide	www.worldguide.com/Fitness/hf.html
MetroSports	virtumall.com/newsstand/metrosports/
Stretching and Flexbility	archie.ac.il/papers/rma/stretching_1.html
Weightlifting Page	www.cs.unc.edu/~wilsonk/weights.html

Fun & Games

Adventure Online Gaming www.gameworld.com
Easy Air Guitar www.digitalrag.com/mirror/air/air.html
id Software (Doom) www.idsoftware.com/
Internet Casinos www.casino.org/
Internet Chess Club www.hydra.com/icc/
Joe's SimCity 2000 Page garnet.berkeley.edu:4248/sim.html
M-U-Ds Resource Corner www.iscs.nus.sg/~limyeech/muds.html
Washingtonian Punchline www.infi.net/washmag/hotline/punchline.html
Zarf's Game List www.cs.cmu.edu/afs/andrew/org/kgb/www/zarf/games.html

Horses & Horse Racing

Aberdeen University Riding Club www.abdn.ac.uk/~u02pda/index.html
Agricomm's Thoroughbred Page agricomm.com/agricomm/tb
Houston Livestock Show and Rodeo www.eden.com/new/hlsr/hlsr.html
Hugh Finn's Horse Racing News ns1.win.net/derby/finntm.htm
International Museum of the Horse andromeda.mis.net/imh/imhmain.html

Movies

Academy Awards www.oscars.org/ampas/
Cannes Film Festival www.inria.fr/rodeo/personnel/hoschka/cannes-festival.html
Disney and Buena Vista Pictures www.disney.com/BVPM/MooVPlex.html
Fine Line Studios www2.interpath.net/fineline
Hitchcock Page www.primenet.com/~mwc/
Hollywood Online www.hollywood.com/
Internet Movie Database at Cardiff, UK www.msstate.edu/Movies/
MCA/Universal Pictures www.mca.com/universal_pictures/
MGM www.mgmua.com/MGM
Movie Poster Warehouse www.io.org/~mpw/
MovieWeb movieweb.com/movie/movie.html
Orson Welles www.voyagerco.com/CC/gh/welles/intro.html
Paramount Pictures www.paramount.com/
Sony Pictures www.spe.sony.com/Pictures/index.html

Outdoors

America's Cup '95 www.ac95.org
Appalachian Trail Home Page www.fred.net/kathy/at.html
Back Country Home Page io.datasys.swri.edu/
Bushwalking Page www.anatomy.su.oz.au/danny/bushwalking/index.html
California Travel Parks Association www.campgrounds.com/
Death Valley viewfinders.com/Westscapes/DeathVy/DeathVy-TOC.html
Estes Park Virtual Visitors Guide www.csn.net/estes/
National Park Service Home Page www.nps.gov/
Parks Canada parkscanada.pch.gc.ca/main_e.htm
Penn State Outing Club, Canoe Division random.chem.psu.edu/psoc/
Redwood www-leland.stanford.edu/group/redwood/
Yosemite National Park www.CyberGate.COM:80/~csjv/yosemite/

Photography

Ansel Adams Home Page bookweb.cwis.uci.edu:8042/AdamsHome.html
Center for Creative Photography www.ccp.arizona.edu:80/ccp.html
Eastman Kodak www.kodak.com
Photo Perspectives www.i3tele.com/photo_perspectives_museum/faces/perspectives.home.html
Photos Online www.holli.com/ponline/
Robert Altman's Website www.cea.edu/robert/
Sight Magazine www.sightphoto.com/photo.html
Truths & Fictions Digital Photography www.voyagerco.com/CD/ph/p.truths.html/
U.C. Riverside—California Museum of Photography cmp1.ucr.edu/

Wacky

Absolutely Incredible Counting Page www.fn.net/~jmayans/count.html
Big Black Hole of Pain tribble.com/bighole.html
Bill Gates's New Home www.morsepr.com/MMdocs/Bill.html
A Cigar Is Never Merely a Cigar www.voicenet.com/~johnston/cigarnet.html
DreamMosaic www.itp.tsoa.nyu.edu/~windeatr/dreamMosaic.html
Justin's Links from the Underground www.links.net/
Red Noses in Cyberspace www.worldserver.pipex.com/comic.relief/
Rodney Dangerfield www.rodney.com/rodney/joke.of.the.day/joke.html
Vampyres Only www.vampyre.wis.net/vampyre/index.html
Worst of the Web turnpike.net/metro/mirsky/Worst.html

Media

Information Services

Associated Press www.trib.com/NEWS/APwire.html
BBC www.bbcnc.org.uk/
Business Wire www.hnt.com/bizwire
Newsbytes Pacifica www.islandtel.com/newsbytes/
Press Association NewsCentre (U.K.) www.pa.press.net
PR Newswire www.prnewswire.com/
QuoteCom BusinessWire www.quote.com/sub/bwire.html
Washington Telecom Newswire wtn.com/wtn/wtn.html

Magazines—Mainstream

Discover www.enews.com:80/magazines/discover/
The Economist www.economist.com
Entertainment Weekly www.pathfinder.com/@@70uSHDS1QAAQHoY/ew/
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Fortune www.pathfinder.com/@@N7PYjHCh0QAAQHoY/fortune/fortune.html
Money Magazine www.pathfinder.com/@@dLBO3nBY0AAAQHwY/money/
The New Republic www.enews.com/magazines/tnr/
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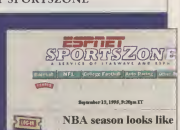

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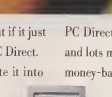

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Outside Online web2.starwave.com/outside/
Urban Desires desires.com
Utne Reader www.utne.com/reader/magazine.html
Vibe www.pathfinder.com/@@RJFWC*AC1AAAQHsYvibe/
Word www.word.com

Newspapers

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Chicago Tribune www.chicago.tribune.com
Dallas Morning News www.pic.net/tdmn/tdmn.html
Houston Chronicle www.chron.com
Indianapolis Register www.inetdirect.net/indianapolis-register/
Irish Times www.ieunet.ie/ois/irishtimes/index.shtml
Jerusalem Post www.jpost.co.il/
New York Times Fax nytimesfax.com
Roanoke Times Online www.infi.net/roatimes/index.html
San Francisco Chronicle/Examiner www.sfgate.com
San Jose Mercury News www.sjmercury.com
USA Today www.usatoday.com
Wall Street Journal www.wsj.com/

Radio

Anti-Rush Headquarters falcon.cc.ukans.edu/~cubsfan/antirush.html
Canadian Broadcasting Corporation www.radio.cbc.ca/
HK Radio www.hkweb.com
Howard Stern Archive krishna.cs.umd.edu/stern/
Jah Radio ebhon.jnst.uor.edu/Users/doktor/
KNET 140.174.161.1 metaverse.com/knet/
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National Public Radio www.npr.org/
RadioNet www.radionet.com/
Rush Limbaugh www.rtis.com/nat/pol/rush/
World Radio town.hall.org/Archives/radio/Mirrors/WRN/welcome.html

Television Networks

CBS www.cbs.com/
CNN www.nmis.org/NewsInteractive/CNN/Newsroom/contents.html
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Fox www.eden.com/users/my-html/fox.html
MTV www.mtv.com/
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PBS www.pbs.org
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UPN www.cdsnet.net/vidiot/UPN/upn.html

Television Programs

Beavis and Butt-Head www.cen.uiuc.edu/~dcpiii/bnbguide.html
Beverly Hills, 90210 www.prairienet.org/~rogue/homepage.html
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David Letterman bingen.cs.csbsju.edu/letterman/topten/current-top-ten.html
The Discovery Channel Online www.discovery.com/
The Kids in the Hall www.usit.net/public/jmbell/kith/kith.html
Melrose Place melroseplace.com
The Official X-Files Web Site www.delphi.com
Seinfeld www.spe.sony.com/Pictures/tv/seinfeld/seinfeld.html
Star Trek: Voyager voyager.paramount.com/VoyagerIntro.html
The Tonight Show with Jay Leno www.nbctonightshow.com/
What's on Tonite tv1.com/

Music

Alternative

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Indie Label List www.cs.ucl.ac.uk/staff/T.Wicks/ill/index.html
Pop Narcotic Records www.webcom.com/~popnarc/
Santa Cruz Alternative Music mail.iuma.com/~scam/
SonicNet www.sonicnet.com/
Sub Pop www.subpop.com/
The Twee Kitten www.best.com/~scottz/tk/
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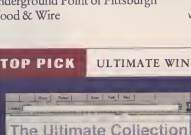

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Blue Note www.webcom.com/~ijazz/bluenote.html
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DC Blues www.intelus.com/dcblues/
The Electric Gallery: Jazz and Blues Wing www.egallery.com/jazz.html
King Biscuit Time www.island.net/~blues/
Tom Morgan poe.acc.virginia.edu/~tm4q/
Vibe's Jazz and Blues Index www.timeinc.com/vibe/mmm/music_jazz.html

Classical

Atlanta Symphony isotropic.com/symphony/asohome.html
Austin Symphony Orchestra www.quadralay.com/www/Austin/FineArts/AustinSymphony/aso_home.html
Boston Chamber Ensemble www.mit.edu:8001/people/jcb/BCE/bce.html
Classical Music weber.u.washington.edu/~sbode/classical.html
Classical Music Online www.crl.com/~virtualv/cmo/
Dallas Symphony www.pic.net/dso/
Internet Cello Society tahoma.cwu.edu:2000/~michelj

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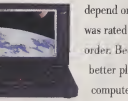

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Now you can see numbers from any angle. List them, chart them, sort them in ways that simplify analysis, that reveal the answers you need. With new Microsoft® Excel, you can use AutoCalculate to find the sum, average, count, minimums, or maximums of specific cells simply by highlighting them. (You no longer create scratch formulas every time you need an answer.) To spot geographically based trends and relationships, use the new mapping capabilities of Microsoft Excel to analyze sales by territory, for example. PivotTable® views let you rearrange the headings inside your spreadsheet to get a new view of your data. If you want to view revenues by product instead of by region, simply move the "product" heading and the entire table adjusts. And for people who value the different perspectives different people can offer, Microsoft Excel now lets multiple users enter and edit data in the same worksheet at the same time.

Everything from recalculations to pivot tables is faster. Routine tasks now happen automatically.

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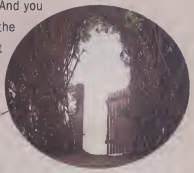
By improving integration with Microsoft Access, you can now share tools across both applications. You can borrow Access Forms and Reports to simplify data entry, and to create group reports and mailing labels from your Microsoft Excel list. You can use PivotTables in Access to see data from different angles. Choose the Convert to Access command, and the software will automatically turn spreadsheets into true relational databases. It eliminates the guess work by creating the relational tables for you. And you can move or copy data effortlessly across worksheets and workbooks, to the desktop, or to other apps by using advanced drag and drop tools. New Microsoft Excel. Now it works the way you want to work, at the speed you want to work.



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The connection between the ideas in your head and the words on your screen becomes immediate, almost seamless. Thoughts, sentences, paragraphs flow continuously, uninterrupted by software. You don't stop writing to format your documents. AutoFormat knows when you are trying to create a numbered list and automatically indents and inserts the next number. You don't stop to correct words when you capitalize the wrong letter, or when you inadvertently hit Caps Lock. AutoCorrect fixes them as soon as you hit the spacebar. These are examples of Microsoft® IntelliSense™ technology. Technology that recognizes what you are doing and helps you do it faster. Technology that makes it easier for you to [illegible] work, because [illegible] time making the software work.

The software learns your typing habits. It lets you concentrate on the words, not on how to spell them.

Spell-checking now happens on the fly, as you type. Misspelled words are underlined so you can correct them as you go. Click on the right mouse button and alternative spellings appear. Common mistakes everyone makes when typing are corrected by the software automatically. (*Thier* is changed to *Their* every time you type it.) And it learns to recognize both the idiosyncratic mistakes you have a tendency to make, and the peculiar names, abbreviations, and spellings you don't want it to correct. If you override a correction, it adds the word or phrase to its exceptions list and never makes that change again. It has even learned to speak your language. If you have a question, you ask the Answer Wizard in plain English. "How do I make this into two columns?" It gives you step-by-step instructions. You stop working only long enough to type in your question.

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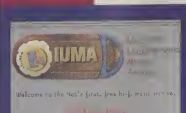

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San Francisco Symphony www.hooked.net/sfsymphony/sfshome.html

Jazz

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European Free Improvisation www.shef.ac.uk/misc/rec/ps/efi/ehome.html
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Santa Fe Opera www.walpole.com/walpole/Santa_Fe_Opera/

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The Forest rock.net
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Online Music Recommendation Service rg.media.mit.edu/ringo/
ReliefRock www.reliefnet.org/reliefrock/rock.html
Rockhall.com www.rockhall.com/
RockWeb Interactive www.rockweb.com/
Rolling Stones www.stones.com

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NASA/Kennedy Space Center www.ksc.nasa.gov/
NASA Spacelink spacelink.msfc.nasa.gov/
NASA Thesaurus www.stl.nasa.gov/nasa-thesaurus.html
Space Shuttle shuttle.nasa.gov
Space Telescope Electronic Information Service www.stsci.edu/
U.C. Berkeley Search for Extraterrestrial Civilizations albert.ssl.berkeley.edu/serendip/
UFO www.bgsu.edu/~jzawodn/ufo/

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Griffith Observatory www.csun.edu/~hbphy003/
Online Stargazer Map www.mtwilson.edu/Services/starmap.html
Saturn Ring Plane Crossing newproducts.jpl.nasa.gov/saturn/
Sloan Digital Sky Survey www-sdss.fnal.gov:8000
The Solar System white.nosc.mil/planets.html
Space Science and Engineering Center www.ssec.wisc.edu/
The Starlink Project star-www.rl.ac.uk
Views of the Solar System www.c3.lanl.gov/~cjhamil/SolarSystem/homepage.html

Biology & Genetics

Biostatistics, Mathematics, and Medical Information biosun1.harvard.edu/bioinfo.html
Cells Alive www.whitlock.com/kcj/quill/
Genetics Education Center kumchttp.mc.ukans.edu/instruction/medicine/genetics/
Human Genome Database gdbWWW.gdb.org
Preview the Heart sin.fi.edu/tfi/preview/heartpreview.html
Scientific Visualization for Education www.cs.brown.edu/people/art035/Bin/science.html
The Tree of Life phylogeny.arizona.edu/tree/phylogeny.html
Virtual Frog-Dissection Page george.lbl.gov/vfrog/

Chemistry

American Chemical Society www.acs.org/
Biochemistry www.missouri.edu/~c621913/bichem.html
CAUT Computational Chemistry Project www.chem.swin.edu.au
Chemistry Teachers' Resources rampages.onramp.net/~jaldr/chemtch.html
Gaussian '92 Water Calculation herzberg.ca.sandia.gov/water_g92_calc.html
Hyperactive Molecules www.ch.ic.ac.uk/chemical_mime.html
Royal Society of Chemistry chemistry.rsc.org/rsc/
Web Elements www.shef.ac.uk/chemistry/web-elements/

Earth Sciences

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Geomorphology tgl.geology.muohio.edu/gbook/IQG.html
Geo Site www.ts.umu.se/~widmark/lwgeolog.html
Giovanni Guglielmo's Research www.utexas.edu/research/beg/giovanni
Hawaii Volcano Observatory Newsletter www.soest.hawaii.edu/hvo/
MineNet www.microserve.net/~doug/
Rob's Granite Page uts.cc.utexas.edu/~rmr/
Sequoia 2000 www.sdsc.edu/0/Parts_Collabs/S2K/s2k_home.html
U.S. Geological Survey www.usgs.gov/
The Volcano Page www.geo.mtu.edu/volcanoes

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Windows Magazine (9/95)

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COMDEX BOOTH L402

Circle 171 on reader card.

Engineering

Aluminum Wiring Standards www1.mhv.net/~dfriedman/aluminum.htm
American Society for Engineering Education www.asee.org/
AutomationNet www.AutomationNET.com/
Electrical Engineering Circuits Archive weber.u.washington.edu/~pfloyd/ee/index.html
Journal of Mechanical Design www-jmd.engr.ucdavis.edu/jmd/
NanoNet aramis.stanford.edu/NanoNet/
NASA Technical Reports techreports.larc.nasa.gov/cgi-bin/NTRS
Shock and Vibration Information saviac.usae.bah.com/

Health & Medicine

AIDS Patent Database patents.cnidr.org/pto/access.html
Alzheimer Web werple.mira.net.au/~dhs/ad.html
Archimedes Project kanpai.stanford.edu/arch/arch.html
Avon's Breast Cancer Awareness www.pmedia.com/Avon/avon.html
Dental Education Resources www.shef.ac.uk/uni/projects/der/derweb.html
Disabilities Access www.pavilion.co.uk/CommonRoom/DisabilitiesAccess/
Duke University Medical Center www.mc.duke.edu/
First Aid Online www.symnet.net/~afoster/safety/
Good Health Web www.social.com/health/index.html
Health Care Info Resources www-hsl.mcmaster.ca/tomflem/top.html
Heart Support Group www.ibmpcug.co.uk/~rwall/
HIVNet hivnet.org
Home Test Kits kerouac.pharm.uky.edu/KitsHP.html
HyperDoc: The National Library of Medicine www.nlm.nih.gov/
Institute for Work and Health www.iwh.on.ca/home.htm
Mayo Clinic www.mayo.edu/
MS Foundation www.nptn.org/cyber.serv/hwp/support/ms/menu.html
Natural Medicine and Alternative Therapies www.amrta.org/~amrta
Rehabilitation Learning Center weber.u.washington.edu/~rlc/
Remote Area Medical www.usit.net/ram/
Rogaine Online www.igroup.com/rogaine/
Virtual Hospital vh.radiology.uiowa.edu/
World Health Net world-health.net/

Oceanography

Air Project www-rocq.inria.fr/air/
Corel Reefs and Mangroves ibm590.aims.gov.au/
Florida Aquarium www.sptimes.com/aquarium/default.html
Hydrographic Atlas of the Southern Ocean www.awi-bremerhaven.de/Atlas/SO/Deckblatt.html
International Arctic Buoy Program iabp.apl.washington.edu/
National Marine Fisheries Service kingfish.ssp.nmfs.gov/home-page.html
Ocean Topography Experiment topex-www.jpl.nasa.gov/
Parallel Ocean Program Model dubhe.cc.nps.navy.mil/~braccio/

Weather

Center for Atmospheric Research http.ucar.edu/metapage.html
Global Network News Weather nearnet.gnn.com/gnn/news/weather.html
Great Lakes Forecasting System glfs.eng.ohio-state.edu/
IntelliCast www.intellicast.com
Interactive Maps thunder.atms.purdue.edu/interact.html
MIT Weather Page www.mit.edu:3001/weather
National Weather Service Office thunder.met.fsu.edu/nws/public_html/
Oklahoma Weather Radar Lab aaron.gcn.uoknor.edu/index.html
Weather Maps & Movies rs560.cl.msu.adu/weather/index.html?d+us.2.3+3
Weather Underground Home Page groundhog.sprl.umich.edu/

Shopping

Clothing

2(x)ist Men's Underwear www.digex.net/2xist.html
Burlington Coat Factory www.coat.com
Graphiti T-Shirt Design philadelphia.libertynet.org/~graphiti/link20.html
Jungle Jim's JungleWear www.webcom.com/~jungle/warning.html
Matanuska Outfitters www.nauticom.net/users/mata/mata.html
Namark Cap & Emblem www.accessnv.com/namark/
NeoVideo InteractiveWear adware.com/mall/neovideo/welcome.html
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Cybercalifragilistic www.webcom.com/~getagift/
Dial-a-Gift www.icw.com/dialgift/homepage.html
Flags of the World www.mallmart.com:80/flags/
Goodies from Goodman branch.com/goodies/goodies.html
Innovations Online www.innovations.co.uk/giftpoint/
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Online Malls & Catalogs

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Branch Mall branch.com
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iMall www.imall.com/homepage.html
Interactive Super Mall supermall.com
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Mall 2000 www.mall2000.com/
marketplaceMCI www.internetmci.com
Redwood Country Unlimited www.northcoast.com/unlimited/product_directory/product_directory.html

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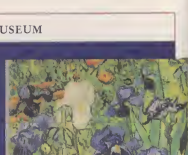

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Adopt-a-Pet www.tezcat.com/~rescue/rescuegrps/aopet.html
Animal Rights Resource Site envirolink.org/arrs/index.html
Arctic National Wildlife Refuge www.alaskan.com/anwr/
Bat Conservation International www.batcon.org/
Dolphin Rescue www.wta.com/dolphin/
EnviroLink Network www.envirolink.org/orgs/
Manitoba Animal Rights Coalition envirolink.org/arrs/marc/marc.html
People for Ethical Treatment of Animals www.envirolink.org/arrs/peta/
Save-a-Pet Online pasture.ecn.purdue.edu/~laird/Dogs/Rescue/orgs.html
Sea Shepherd Conservation Society www.envirolink.org/orgs/seashep/
World Society for Animal Protection www.ecology.com/wspa/wspa.htm

Buddhism

Access to Insight world.std.com/~metta/index.html
Buddhist Information rbhatnagar.csm.uc.edu:8080/buddhist_info.html
CyberZen www.indy.net/~bdmoore/cyberzen.html
Dzogchen Foundation www.ken.com/homepages/surya/dzogchen/
Journal of Buddhist Ethics www.psu.edu/jbe/jbe.html
Shin Buddhism Network www.aloha.net/~rbloom/shinran/
Soka Gakkai International www.halcyon.com/lchinet/menu.html
Tiger Team Buddhist Info Network www.newclv.org/TigerTeam/
Zen Garden www.nomius.com/~zenyard/zenyard.htm

Celebrities

Brad Pitt Home Page xwww4.ncsu.edu/eos/users/c/cajohnso/www/brad.html
Frank Sinatra Web Page www.io.org/~buff/sinatra.html
Madonna Home Page www.mit.edu:8001/people/jwb/Madonna.html
Richard M. Nixon on the Web nexus.chapman.edu:80/nixon/
Winona Ryder www.duc.auburn.edu/~harshec/WWW/Winona.html
Uma Thurman Home Page www.csv.warwick.ac.uk/~esrfj/Uma/
The Unofficial Bill Gates www.lh.com/z/bill/

Christianity

Bible Prophecy Page webster.skypoint.net/members/pheo/BibleProph.html
Christian Coalition www.cc.org
Hypertext Bibles satum.colorado.edu:8080/Christian/Bible/bible.html
Kingdom of Heaven www.indirect.com/www/thebible/index.html
Messages from the Virgin Mary www-cs-students.stanford.edu/~marco/docs/medjugorje.html

TOP PICK VIRTUAL FROG-DISSECTION KIT

This site is certainly not for the squeamish. You'll swear you smell the formaldehyde when you hop into this interactive site with an educational focus.

georgelibi.gov/vfrog/

Notre Dame Archives archives1.archives.nd.edu/
Prophesy: The Second Coming of Jesus Christ www.cynet.com/Jesus/
Shroud of Turin www.cais.com/npacheco/shroud/turin.html
Ukrainian Greco-Catholic Church www.UGKC.Lviv.UA/
Unofficial Pope John Paul II Page www.zpub.com/un/pope/

Ecology

Conservation Ecology journal.biology.carleton.ca/
Ecology Channel www.ecology.com/
EcoNews Africa www.web.apc.org/~econews/
Environmental Protection Agency www.epa.gov/
Freshwater Ecology lake.canberra.edu.au/crcfe/crchome.html
Habitat Ecology Home Page biome.bio.dfo.ca/
Institute of Terrestrial Ecology www.nmw.ac.uk/ite/
Man and the Biosphere ice.ucdavis.edu/MAB/
Rainforest Action Network www.ran.org/ran/
Tropical Rainforest, Surinam www.euronet.nl/users/mbleeker/suri_eng.html

Feminism

Catt's Claws worcester.lm.com/lman/feminist/cattsclaws.html
Feminist Film Reviews www.inform.umd.edu/EdRes/Topic/WomensStudies/FilmReviews
Feminist Science Fiction www.uic.edu/~lauramd/sf/femsf.html
On the Issues www.echonyc.com/~onissues/
A Web of One's Own www.reference.be/womweb/
Women of Achievement www.lm.com/~lmann/feminist/achievement.html
Women's Resources www.best.com/~dsiegel/women/women_home.html
Women's Studies and Feminist Resources www.bgsu.edu/departments/wmst/WMSTwebresources.html
Women's Way www.omix.com/womensway/
Women's Wire www.women.com/

Gay & Lesbian

And Justice for All www.vive.com/connect/aja/home.htm
Canadian Gay, Lesbian, and Bisexual Directory www.cois.st-thomas.on.ca/~cglbrd/
CyberQueer Lounge cyberzine.org/html/GLAIDS/glaidshomepage.html
Digital Queers www.dq.org/dq/
Dyke TV www.cc.columbia.edu/~vk20/lesbian/dyketv.html
La Femme www.webcom.com/~femme/
Gay and Lesbian Web Alliance emanate.com/glwa/
GayWeb www.gayweb.com/gayweb/
Out and Proud catalog.com/outproud/
Queer Resources Directory www.qrd.org/QRD/
U.K. Gay and Lesbian Web Site www.demon.co.uk/world/ukgay/index.html

Human Rights

Amnesty International www.io.org/amnesty/overview.html
Australian Human Rights www.vicnet.net.au/~victorp/vphuman.htm
Comprehensive Human Rights Initiative mozart.cc.iup.edu/manweb/chrihome.html
DrugText Europe www.xs4all.nl/~mlap/
Fourth World Documentation Project www.halcyon.com/FWDP/fwdp.html
Human Rights Web www.traveller.com/~hweb/hrweb.html
International Human Rights Database www.law.uc.edu/Diana/
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Islam

Companions of the Prophet pluto.cc.umr.edu/~nanang/sirah/
Dome of the Rock www.webcom.com/~zume/GallerySight/SN.Dome/Intro.html
Holy Quran www.utexas.edu/students/amso/quran_html/
Islam uts.cc.utexas.edu/students/amso/
Islamic Center of Southern California www.islamctr.org/icsc/
Islamic Events www.umich.edu/~luqman/
Islamic Knowledge linux.hartford.edu/~grant/
Islamic Resources wings.buffalo.edu/student-life/sa/muslim/isl/isl.html
Mosque of the Internet www.nmia.com/~mosque/
Prayer Times www.gdol.com/~david/prayer.html

Judaism

Anne Frank in the World www.tucson.com/waller/Anne_Frank.html
Chabad Literature www.utexas.edu/students/cjso/Chabad/chabad.html
Chabad-Lubavitch in Cyberspace www.chabad.org/
Cybrary of the Holocaust www.best.com/~mddunn/cybrary/
Dallas Virtual Jewish Community 129.119.19.103/dvjcc/HomePage.html
Ethiopian Jewry www.cais.com/nacoej/index.html
Jewish Feminist Web Site world.std.com/~alevin/jewishfeminist.html
Judaica Web World www.nautilcom.net/users/rafie/judaica-world.html
Kosher Restaurant Database shamash.nysernet.org/kosher/krestquery.html
Network for Jewish Youth www.ort.org/anjy/anjy.htm
Project Genesis www.torah.org/genesis/

New Age

Hare Krishna Home Page www.webcom.com/~ara
Motherheart www.afn.org/~mother/
New York Open Center www.panix.com/~openctr/
Project Mind Foundation www.webscope.com/project_mind/project_mind.html
Protree Alternative Information Center www.protree.com/
Spirituality—This Is My World www.gla.ac.uk/~gbza22/link3.html
Spirit WWW www.protree.com/Spirit.html
The Weaver www.hyperlink.com/weaver/

Relationships

Amoree Personals Service www.kaiwan.com/~bayers/mates.html
CyberFriends dare.com/fr_main
The Cyrano Server www.nando.net/toys/cyrano.html
Joe's Amazing Relationship Problem Solver
studsys.mscs.mu.edu/~carpent1/probsolv/rltprob0.html

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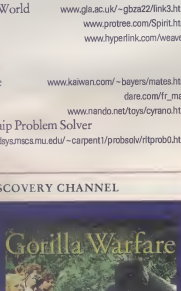

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Love Life Radio www.cyber-hawaii.com/love/
Match.Com www.match.com
True Love Page seidel.ncsa.uiuc.edu/romance/
Weddings Online got.net/weddings/
Da WWW House Party www.xnet.com/~colley/

Sports

Baseball

The Baseball Server www2.nando.net/SportServer/baseball
InSite Baseball Home Page www.in-site.com/baseball/
Instant Baseball www.InstantSports.com/baseball.html
Internet Baseball Information Center www.gems.com/ibic/
Los Angeles Dodgers www.rain.org/~gary1580/dodgers/dodgers.htm
National Baseball Hall of Fame and Museum
www.enews.com/bas_hall_fame/overview.html
New York Yankees Page grove.ufl.edu/~kat152/nyy.html
Skilton's Baseball Links ssnet.com/~skilton/baseball.html

Basketball

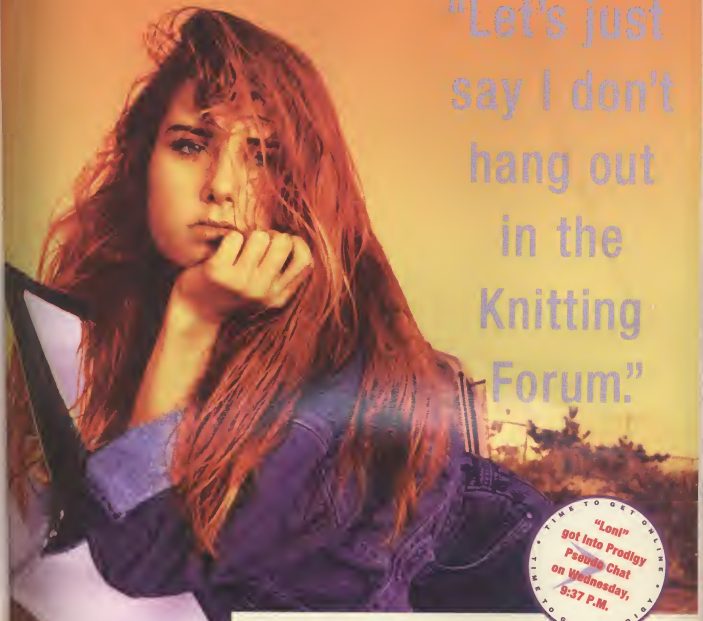
The Basketball Diaries bazaar.com:80/BDiaries/index.html
The Basketball Server www2.nando.net/SportServer/basketball
Celtic Pride web.syr.edu/~lamagahn/
Fantasy Net Basketball www.ftn.net/~earnold/basket/
The Lake Show www.armory.com/~lew/sports/basketball/
The Michael Jordan Page gagme.wwa.com/~boba/mj.html
nba.html www.clark.net/pub/terra/nba.html
On Hoops www.vidya.com/hoops/
Phoenix Suns Report www.indirect.com/www/mecheves/suns/suns.html
Professional Basketball Server www.netgen.com/sis/NBA/NBA.html
Reggie Lewis nuke.westlab.com/craigw/welcome.html

College Sports

College Basketball Page
www.cs.cmu.edu/afs/cs.cmu.edu/user/wsr/Web/bball/bball.html
College Football Hall of Fame collegefootball.org/
The Football Server www.nando.net/football/1994/college/college.html
GNN Basketball gnn.com/gnn/meta/sports/basketball/ncaa/index.html
NCAA Football www.traveller.com/sports/ncaa_fb/
NCAA Basketball bronze.ucs.indiana.edu/~rdannenb/bball.html
Unofficial Universal Cheerleader Association Page
www.auburn.edu/~collesr/uca.html
Women's University Hockey
www.cs.utoronto.ca/~andria/University_Hockey.html

Football

49ers on the Gate www.sfgate.com/sports/49ers/
Denver Broncos holly.colostate.edu/~bwhiting/
The Football Server www.nando.net/SportServer/football/
New York Giants pantheon.cis.yale.edu/~bigblue/giants.html
NFL Home Page nflhome.com
NFL Info Web www.cs.cmu.edu/afs/cs/user/vernon/www/nfl.html
NFL Pool www.hal.com/~markg/NFL/
Pro Football Expert www.he.tdl.com/~football/
Superbowl XXIX superbowl.com/main.html
Superbowl XXIX Host Committee Home Page
www.imall.com:80/superbowl/superbowl.html



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Golf Courses of British Columbia interchange.idc.uvic.ca/~golf/golfbc.html
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Golf Home Page ausg.dartmouth.edu/~pete/golf/
Golf Mexico www.wotw.com/wow/mexico/sport/golf.html
Hyperlinks Virtual Golf Resort www.digital-press.com/golfnet/text/hypervco/hypvco01.htm
iGolf www.igolf.com
Saint Andrews www.standrews.co.uk

Miscellaneous Sports

Adventure Sports Online www.adventuresports.com/
Brunotti (Surfing, Snowboarding) www.tbo.nl/brunotti/welcome.htm
Cyber Cyclery cyclery.com/
CyberSki www.iaccess.com.au/cyberski/
Internet Ski Guide www.cybil.kplus.bc.ca/www/ski_net/ski_na.htm
Mushing Online www.polarnet.com/Users/Mushing/
Official 1996 Summer Olympics Page www.atlanta.olympic.org
Professional Bowler Association Online www.pba.org/
The Sailing Site w3.thegroup.net/~eol/sailsite.html
Ski Maps! www.cs.umd.edu/~regli/ski.html
SoccerNews Online www.csn.net/~eid/soccer/sccnindx.html
Sydney 2000 Games www.sydney.olympic.org
Tennis Country www.tenniscountry.com/
Wimbledon www.wimbledon.org/
World of Motorcycling cs.wpi.edu/~ravi/

Travel

Africa

African Connections www.melanet.com/melanet/connections/
Ivory Coast www.webperfect.com/afrinet/ivory/ivory.html
Kenya/Tanzania Trip Report seclab.cs.ucdavis.edu/~wee/east-africa.html
Safari Center www.travelsource.com/safaris/safaricenter.html
Tours and Safaris in Zambia www.zamnet.zm/zamnet/zmtb.html

Asia

Cafe Vanda, Singapore pantheon.cis.yale.edu/~skyjuice/cafevanda.html
Hangzhou and Western China www.public.iastate.edu/~qzourb/homepage.html
Japanese National Tourist Organization www.ntt.jp/japan/TCJ/TC.html
Orbit Global Travel Guide www.pi.se/orbit/welcome.html
Singapore Online Guide www.ncb.gov.sg/sog/sog.html
Tour in China www.ihep.ac.cn/tour/china_tour.html
TravelAsia silkroute.com/silkroute/travel/index.html
Vietnam Travel maingate.net/vn

Canada

Banff National Park www.worldweb.com/ParksCanada-Banff/
British Columbia www.bendtech.com/
Calgary Explorer www.calexplorer.com/
Canada Canoeing www.sage.usenix.org:80/atg/cc/
Explore Manitoba www.eitc.mb.ca/manitoba/itt/travel/explore/index.html
Lunenburg County, Nova Scotia fox.nstn.ca/~trogers/lunco/index.html
Nova Scotia Tourism TTG.SBA.Dal.Ca/nstour/
Ottawa www.scs.carleton.ca/ottawa/ottawa.html
Prince Edward Island Visitors Guide www.gov.pe.ca/info/vg/index.html
Rec.Travel Library www.solutions.net/rec-travel/north_america/canada/

Caribbean

Bequia Island www.freenet.hamilton.on.ca/~aa462/bequia.html
British Virgin Islands www.webfoot.com/travel/guides/bvi/bvi.html
Caribbean Information Office www.caribbeans.com/
Club Med Home Page www.clubmed.com/cm/pages/homepage
French West Indies www.crl.com/~philip/fwi.html
Sandals Ultra All-Inclusive Resorts www.webcom.com/~travel/sand_hp.html
Turks and Caicos Travel Guide www.digimark.net/dundas/turksog/

Europe

Austria austria-info.at/index.html
Holland Tourism www.xxlink.nl/nbt/
Iceland, a Tour www.rfisk.is/english/iceland/rest_of_iceland.html
Italy Hotel Reservation www.venere.it/home/italy.html
Latvia Online www.vernet.lv
Munich Oktoberfest www.bavaria.de/Munich
Pamplona's Running of the Bulls yago.eunet.es/InterStand/cyberagentes/cyber_14/s_fermin.htm
Sailing the Greek Isles mail.eskimo.com/~dianee/
Spanish Maps edb518ea.edb.utexas.edu/html/spanishmaps.html#Chile
United Kingdom Guide www.cs.ucl.ac.uk/misc/uk/intro.html
Virtual Baguette (France) www.mmania.com/

South America

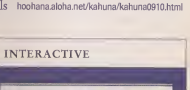
Amazon Explorers www.travelsource.com/ecotours/amazon.html
Brasil Web www.escape.com/~jvgkny/Brasil.Web.html
Colombia www.uniandes.edu.co/Colombia/IndiceColombia.html
Ecuador and Galapagos www.ecnet.ec/
Rio de Janeiro www.puc-rio.br/english/mapario.html
Welcome to Chile sunsite.dcc.uchile.cl/chile/chile.html

South Pacific & Hawaii

Anini Beach Vacation Rentals www.anini.com/
Big Island of Hawaii bookweb.cwis.uci.edu:8042/Books/Moon/hawaii.html
Hawaii Visitors Bureau www.visit.hawaii.org/
House of Leaping Waterfalls hoohana.aloha.net/kahuna/kahuna0910.html

TOP PICK CNN INTERACTIVE

Get the latest news, plus links to CNN's home page. Use the Webspace search engine to forage through CNN's database for news items that interest you.



www.nmis.org/NewsInteractive/CNN/Newsroom/contents.html

Maui Interactive www.maui.net/~kelli/MIA/MI.html
Moloka'i molokai.com/
Tahiti Travel www.tahiti-explorer.com/
U.S. Maui.Net maui.net

United States

The Alaskan Center alaskan.com
Aspen Snowmass www.aspenonline.com/aspenonline/index.old.html
BostonWeb www.bweb.com/bostonweb/
California Bed & Breakfast Web www.net101.com/BBCA/index.html
California Department of Parks and Recreation agency.resource.ca.gov/parks/dpr.html
Choice Hotels International www.hotelchoice.com
City.Net www.city.net
Disneyland www.best.com/~dijon/disneyland/
Embassy Suites www.promus.com/embassy.html
Go Hosteling hostel.com/~ebarnett/gohosteling.html
The Guide to Florida infoguide.com
Hello Holiday Inn www.holiday-inn.com/
Las Vegas Leisure Guide www.pcap.com/lasvegas.htm
Napa Valley Home Page www.freerun.com/cgi-bin/home.o
Nightflight Guide to New York and Los Angeles www.echonyc.com/~voice
USA CityLink www.neosoft.com/citylink/

Universities & Schools

Asia & Pacific

Australian National University cis.anu.edu.au/
Hiroshima City University www.hiroshima-cu.ac.jp/
Hong Kong University of Science and Technology www.ust.hk
National University of Singapore nuscc.nus.sg/
Osaka Kyoiku University, Japan okumedia.cc.osaka-kyoiku.ac.jp/index_E.html
Peking University www.ihep.ac.cn/uni/pku/pku.html
University of Canberra, Australia www.canberra.edu.au
University of Tokyo Komaba Campus www.c.u-tokyo.ac.jp/

Canada

Acadia University, Nova Scotia www.acadiau.ca/
Okanagan University College, British Columbia okswl01.okanagan.bc.ca/home.html
Queen's University, Ontario info.queensu.ca/index.html
Université de Montréal (in French) www.iro.umontreal.ca/
University of Alberta web.cs.ualberta.ca/UAlberta.html
University of British Columbia view.ubc.ca/
University of Calgary acs6.acs.ucalgary.ca/
University of New Brunswick www.unb.ca/
University of Toronto www.utoronto.ca/uoft.html
University of Victoria, British Columbia www.uvic.ca/

Europe

American University of Paris www.aup.fr/
Politecnico di Milano, Italy odcdig5.cdc.polimi.it/Fr/Od/Cr/
Technical University of Budapest, Hungary www.bme.hu/
Universidad Complutense de Madrid (in Spanish) www.ucm.es/UCMD.html
Università di Bologna, Italy www.cib.unibo.it/gne/Homeeng.html
Université Libre de Brussels, Belgium sun4.iihe.ac.be/
Universitetet I Bergen, Norway www.uib.no/index-eng.html
University of Manchester, England info.mcc.ac.uk/
University of Vaasa, Finland www.uwasa.fi/

Kids' Education

CyberSchool www.4j.lane.edu/CyberSchool/CyberSchool.html
Latitude28 Schoolhouse www2.opennet.com/schoolhouse/
Monte Vista's On-Line Academy rainbow.rmii.com/~mrmac/ola1.htm
WebWare SAT Preparation www.testprep.com

Latin America

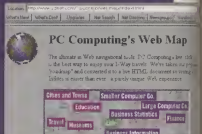
Instituto Mexicano del Petroleo (in Spanish) cronos.sgia.imp.mx/index.html
Universidad de Costa Rica (in Spanish) www.ucr.ac.cr/
Universidad de Guadalajara, Mexico www.udg.mx/
Universidad de las Americas, Puebla, Mexico info.pue.udlap.mx/
Universidad de Lima, Peru ulima.edu.pe/
Universidade Federal do Rio de Janeiro, Brazil guarani.cos.ufrj.br:8000/home.html
Universidad San Francisco de Quito, Equador www.usfq.edu.ec/
University of Sao Paulo, Brazil www.usp.br/eindex.html

United States

Arizona State University info.asu.edu:80/
Boston University web.bu.edu/
Brigham Young University www.byu.edu/
California Institute of Technology www.caltech.edu/
Carnegie Mellon University www.cmu.edu/
Florida State University www.fsu.edu
Louisiana State University unix1.sncc.lsu.edu
Ohio State University www.acs.ohio-state.edu/
Stanford University www.stanford.edu/
University of California, Berkeley www.berkeley.edu:80/
University of Delaware www.udel.edu/
University of Notre Dame www.nd.edu
University of Southern California cwis.usc.edu/
University of Texas at Austin www.utexas.edu/
University of Virginia gwis.virginia.edu/
University of Washington www.washington.edu:1180/

TOP PICK PC COMPUTING

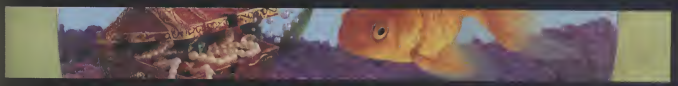
This isn't just a shameless plug. Well, maybe it is a little, but it's also the best place to get hundreds of downloadable freebies and clickable access to our popular Web map. So, you'll also find hotlinks to every site in this story.



www.zdnet.com/~pccomp

On the Net, millions can see your company.

Millions can see your products.



And millions can see if something goes wrong.

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The global exposure you get on the Internet can be a two-edged sword. It can be a big "welcome" sign or, if things don't go right, a frustrating "out to lunch" sign.

We can help. Whatever platform you're on, whether you're using laptops or super computers, the IBM Internet Connection Family of client and server software will ensure your business thrives on all the attention you'll get.

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It will also help you handle attention you don't want. With award-winning security products and proven firewall applications that will help protect your electronic business.

Leveraging existing systems is crucial as well. Soon the Internet Connection Family will offer both DB2® and CICS™ gateways to connect your systems and your business applications to the World Wide Web and the Internet.

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CHANGES HIS LINES
TO GO WITH
THE CHANGING TIMES,
BUT HE'LL NEVER CHANGE
HIS BRAND OF DISC DRIVE.

QUALITY *NEVER*
GOES OUT OF STYLE.

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AND RELATED TECHNOLOGIES FOR THE STORAGE, ACCESS
AND MANAGEMENT OF DATA. WE'LL CONTINUE TO PROVIDE
THE CAPACITIES AND FORM FACTORS TO SUIT YOUR EVOLVING NEEDS.
AND, OF COURSE, WE'LL ALWAYS MAINTAIN
THE QUALITY CONTROL YOUR VALUABLE DATA DESERVES.

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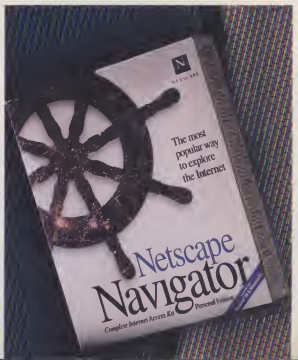
Circle 142 on reader service card.

The Most Valuable Products

WHO WOULD HAVE GUESSED? While the whole world waited for Windows 95 and the next-generation Intel CPU, the rest of the industry was generating more innovative products than ever. What a year. Consider: The Web. ISDN. Fast, realistic 3-D graphics. IBM's astonishing Butterfly. Wireless



of the Year

everything. Color everything. A revolution in storage capacity and price. A CD in every system (and CD changers in a lot of them). Usability breakthroughs everywhere (even databases and servers finally caught on). On the following pages, *PC Computing*'s editors and lab experts present the absolute best, most innovative, most valuable products in every major hardware and software category. It doesn't get any better.

BY THE PC COMPUTING STAFF
PHOTOGRAPHY BY MARK JOHANN

MVP: Desktop Systems

Micron P133 Millennia

Yes, you *can* have it all—an unbeatable combination of performance and value. We know, because we tested the latest PCs until they begged for mercy, and found a no-compromise choice: Micron's P133 Millennia. The Millennia pops Windows open so fast you feel the wind blowing past your ears, thanks to a 133MHz Pentium CPU, Diamond's Stealth 64-bit video card, Plextor's 6Plex six-speed CD-ROM drive, and a speed-optimized motherboard design.

P133 Millennia / Micron Electronics / (800) 515-9197 / $4,199 / *Reader Service No. 660*

Runners-up

Gateway P5-133XL Big is good. Exhibit No. 1: Gateway's blindingly fast P5-133XL, packaged in an impressive, towering case with a three-CD changer. ❧ Gateway 2000 / (800) 846-2000 / $3,999 / *Reader Service No. 661*

Dell Dimension XPS P133c Want the fastest PC you can buy for just over three grand? It's Dell's Dimension XPS P133c, offering Pentium performance in a top-notch package. ❧ Dell Computer Corp. / (800) 727-3355 / $3,100 / *Reader Service No. 662*

MVP: Network Servers

Compaq ProLiant 1500

If money were no object, you'd have a Rolex, a Mercedes—and a Compaq server. If money *were* an object, you'd have a Timex, a Chevy—and a Compaq server. Compaq's ProLiant 1500 is an industrial-strength server that's equipped to handle more than 60 users. And it's designed for performance: Fast-Wide SCSI-2 support, onboard NetFlex-2 EISA controllers, a 120MHz Pentium, and room for a second processor. In addition, the SmartStart CD-ROM makes it easy to install any network operating system.

ProLiant 1500 / Compaq Computer Corp. / (800) 345-1518 / $21,505 / *Reader Service No. 663*

Runners-up

Hewlett-Packard NetServer 5/100 LH It's powerful. It's incredibly easy. It's HP's NetServer 5/100 LH, boasting first-rate components that deliver quality and speed. ❧ Hewlett-Packard / (800) 322-4772 / $6,209 / *Reader Service No. 664*

Digital Prioris LX 590 Priced like a desktop—but offering much more—Digital's Prioris LX 590 server gives you quality, reliability, and performance. Solid! ❧ Digital Equipment Corp. / (800) 344-4825 / $4,418 / *Reader Service No. 665*

MVP: Portables

IBM ThinkPad 701C

This year's innovations in portable computing were nothing short of breathtaking. We saw bigger screens, better usability, and more power—all in machines that were lighter and smaller. The most stunning advance, however, is surely IBM's ThinkPad 701C, also known as the Butterfly. IBM took the best of its modular ThinkPad design and added a keyboard that magically spreads its wings to full size when you open the case. Portable computing will never be the same.

ThinkPad 701C / IBM / (800) 426-2968 / $2,449 to $3,999 / *Reader Service No. 666*

Runners-up

Toshiba Portégé 610CT Toshiba's amazing portable slips a 90MHz Pentium and a 9.5-inch screen into a trim 4.8-pound case. It has power you can take anywhere. ❧ Toshiba America Information Systems / (800) 334-3445 / $4,649 / *Reader Service No. 667*

IBM ThinkPad 755CD A removable CD-ROM drive, bright 10.4-inch screen, and 16-bit audio make this the ne plus ultra of multimedia portables. ❧ IBM / (800) 426-2968 / $4,749 to $8,899 / *Reader Service No. 668*

MVP: Color Printers

Tektronix Phaser 340

The output is astonishing. In fact, if you tack a page generated by Tektronix's Phaser 340 on a wall, the color quality will turn heads. Thanks to its proprietary offset-printing architecture, the Phaser 340's engine delivers 600-dpi color output on plain paper at 4 pages per minute, at a low cost per page. Also, the solid-ink technology and straightforward networking features make the printer easy to set up and maintain. If your company needs color and lots of it, the Phaser 340 should be your choice.

Phaser 340 / Tektronix / (503) 682-3411 / $4,995 / *Reader Service No. 669*

Runners-up

Apple Color LaserWriter 12/600 PS With beautiful 600-dpi output and built-in connectivity, Apple's Color LaserWriter 12/600 PS stands apart from other color lasers. ❧ Apple Computer / (800) 462-7753 / $6,550 / *Reader Service No. 670*

Hewlett-Packard DeskJet 855C Want proof that ink-jet printers are good enough for business? HP's DeskJet 855C makes your documents look great in color or black-and-white. ❧ Hewlett-Packard / (800) 752-0900 / $550 / *Reader Service No. 671*

MVP: Monochrome Printers

Hewlett-Packard LaserJet 5MP

If only all black-and-white lasers offered such gorgeous output and easy, no-fuss operation. HP's LaserJet 5MP has all that and more: Its excellent software makes installation a breeze, and the full-featured print-monitoring software promptly notifies you in the unlikely event that a problem occurs. The 6-page-per-minute 5MP effortlessly prints crisp, 600-dpi black-and-white documents with smooth grayscale images, and—thanks to its built-in infrared port—even lets you print without cables. It's a sturdy, reliable performer.

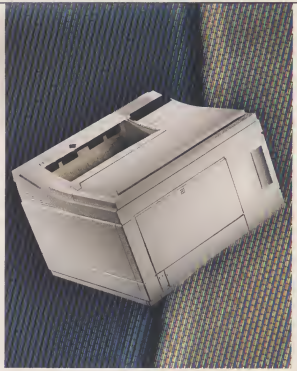
LaserJet 5MP / Hewlett-Packard / (800) 752-0900 / $999 / *Reader Service No. 672*

Runners-up

Brother HL-630 Not long ago, 600-dpi resolution was reserved for pricey printers, but Brother's 6-ppm HL-630 proves you don't need big bucks for high-quality output. ▲ Brother Int'l Corp. / (800) 276-7746 / $399 / *Reader Service No. 673*

Epson ActionLaser 1400 Want your documents to look their best? Don't want to pay top dollar? Fine. Epson's 4-ppm ActionLaser 1400 consistently gives you great-looking output. ▲ Epson America / (800) 289-3776 / $519

MVP: Network Printers



Hewlett-Packard LaserJet 4M Plus

If you need a high-quality network printer that's easy to use and maintain, HP's LaserJet 4M Plus is the best you'll find—for just about any network. Priced at less than $2,000, the sturdy, 12-page-per-minute LaserJet 4M Plus is inexpensive enough for a small business. At the same time, its excellent network connectivity fits smoothly into most corporate workgroups. Best of all, the 600-dpi output looks great, and the JetAdmin software makes it easy for network administrators to keep the 4M Plus up and running.

LaserJet 4M Plus / Hewlett-Packard / (800) 752-0900 / $1,899 / *Reader Service No. 674*

Runners-up

Lexmark Optra Lx+ Think affordable 1,200-dpi network printing is an impossibility? Not with Lexmark's 8-ppm Optra Lx Plus. ▲ Lexmark Int'l / (800) 891-0331 / $2,100 / *Reader Service No. 675*

Digital DEClaser 3500N If you need attractive output that can keep up with you, add Digital's 12-ppm DEClaser 3500N to your network. ▲ Digital Equipment Corp. / (800) 722-9332 / $2,199 / *Reader Service No. 676*

MVP: Monitors

Nanao FlexScan T2•20

Our advice for choosing a new monitor: Think big. Not only do today's giant displays make working with Windows easier on the eyes, their higher resolutions make you more productive. This year's top honors go to Nanao for its 20-inch, Trinitron-based FlexScan T2•20, with 1,600-by-1,200 resolution. A standout in our image-quality tests, the cutting-edge T2•20 includes user-friendly controls and support for Plug and Play. Plus, it adheres to most major ergonomic and safety standards.

FlexScan T2•20 / Nanao (U.S.A.) Corp. / (800) 800-5202 / $2,163 / *Reader Service No. 677*

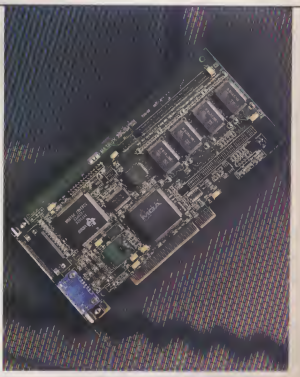
Runners-up

Sony Multiscan 17sf The crisp focus and rich colors of this 17-inch, 1,280-by-1,024 resolution Trinitron will capture your attention, but it's the $899 price that will make you grab for your wallet. ❧ Sony Electronics / (800) 352-7669 / $899 / *Reader Service No. 678*

Mitsubishi Diamond Pro 21TX A superb, 21-inch DiamondTron tube, support for 1,600-by-1,200-pixel resolution, and a sub-$2,000 street price? We'll take it! ❧ Mitsubishi Electronics America / (800) 843-2515 / $1,855 / *Reader Service No. 679*

MVP: Graphics Accelerators

Matrox MGA Millennium



Want to make Windows scream? Get an accelerator. The right graphics card means the difference between a good system and a great system. While high-resolution, 64-bit graphics cards became the de facto standard this year—thanks to efforts by Matrox and Number Nine—ultimately Matrox's MGA Millennium won us over. With its breakneck performance, 3-D acceleration, and innovative use of Window RAM, it brings workstation-class graphics to the desktop, at a price you can afford.

MGA Millennium / Matrox Graphics / (514) 685-2630 / $480, 4MB of WRAM / *Reader Service No. 680*

Runners-up

Number Nine Imagine128 This 128-bit, true-color accelerator is the one to buy for speed, vibrant color, and first-rate Windows utilities. ❧ Number Nine Visual Technology / (617) 674-0009 / $699, 4MB; $1,499, 8MB / *Reader Service No. 681*

Number Nine 9FX Media574 High-speed graphics, motion-video playback and capture, and 16-bit audio—all on a single card—make the 9FX an unbeatable value. ❧ Number Nine Visual Technology / (617) 674-0009 / $299 / *Reader Service No. 682*

MVP: Desktop Storage

Iomega Zip drive

Do you move just because your house is full? Then why buy a new hard drive when you've filled up your current disk? Salt away some of those files with Iomega's Zip drive—the most practical and affordable removable-storage device now made for the PC. You can put 100MB of data on each cartridge, and at $20 apiece the media is cheaper than taking a date to the movies. The Zip is as easy to use as a hard drive, and its software utilities make the difference between a merely practical device and a must-have peripheral.

Zip drive / Iomega Corp. / (800) 697-8833 / $199 / *Reader Service No. 683*

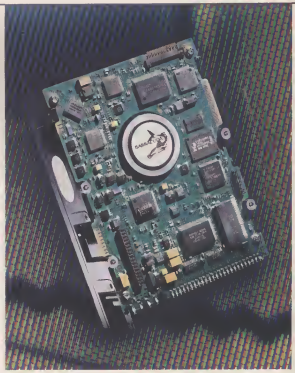
Runners-up

Seagate 2GB Medalist IDE drive We're always looking for bigger, faster, cheaper storage. Seagate hits all the right points with its speedy new drive. ❧ Seagate Technology / (800) 468-3472 / $530 / *Reader Service No. 684*

Panasonic PowerDrive2 Spin your favorite CDs at quad-speed, or store 650MB of data on a removable cartridge—this new combo drive lets you have it either way. ❧ Matsushita Electronics / (800) 742-8086 / $999 / *Reader Service No. 685*

MVP: Network Storage

Seagate 8GB Barracuda drive



Cramming 8GB of storage into a standard 3.5-inch, half-height drive is no mean feat. But Seagate's newest Barracuda mechanism does just that, and offers speedy access times as well. By combining the company's 7,200-rpm Barracuda drive technology with a Fast SCSI interface, Seagate's 3.5-inch, 8GB drive handles transfer rates of up to 10MBps. An even speedier version—with a 40MBps UltraSCSI interface—will be ready to turbocharge your server's performance by the time you read this.

8GB Barracuda drive / Seagate Technology / (800) 468-3472 / under $2,000 / *Reader Service No. 686*

Runners-up

Hewlett-Packard SureStore Tape 5000 With up to 4GB of fast backup for file servers and workstations, this 4mm-tape drive keeps up with your company's data. ❧ Hewlett-Packard / (800) 752-0900 / $1,193, internal; $1,341, external / *Reader Service No. 687*

Mega Drive Enterprise E-8 Get the speedy, expandable 8GB Enterprise array system, and even the most intense network demands won't wait. ❧ Mega Drive Systems / (800) 404-6342 / $5,669 for PCI version / *Reader Service No. 688*

IT'S NOT IF, IT'S WHEN

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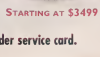

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MVP: CD-ROM Drives

NEC MultiSpin 4Xc

It sounded too good to be true. How could you get a quad-speed multidisc changer for little more than the cost of a single quad-speed drive? Amazingly, NEC's MultiSpin 4Xc meets those specs: convenient access to seven different CD titles at brisk, quad-speed rates, all for $349. Now you can switch from playing your favorite game to consulting an encyclopedia to looking up a phone number—without fumbling to swap discs back and forth. And you'll get top-notch performance.

MultiSpin 4Xc / NEC Technologies / (800) 632-4636 / $349 / *Reader Service No. 689*

Runners-up

Plextor 6Plex If you're talking speed and CD-ROM in the same sentence, you're talking Plextor. The state-of-the-art 6Plex is a speed demon. ❧ Plextor / (800) 475-3986 / $550 / *Reader Service No. 690*

NEC MultiSpin 6Xc This isn't "just" a six-speed CD-ROM drive. It's the first one to incorporate Plug and Play support. ❧ NEC Technologies / (800) 632-4636 / $499, internal; $599, external / *Reader Service No. 691*

MVP: Multimedia Hardware

Creative Labs Sound Blaster AWE32 PnP

Sound cards are a necessity these days, but they can be a pain to install. Thankfully, Creative Labs has come to the rescue with a Plug and Play version of the Sound Blaster AWE32. Powered by the same EMU 8000 synthesizer chip and 1MB of high-quality wavetable sound ROM that vaulted the original AWE32 to the top of the charts, the new Plug and Play model offers idiot-proof installation under Windows 95. Whether you're a die-hard gamer, multimedia presenter, or serious composer, the AWE32 PnP will jolt your speakers to life.

Sound Blaster AWE32 PnP / Creative Labs / (800) 998-1000 / $249 / *Reader Service No. 692*

Runners-up

Cambridge SoundWorks Turn your PC into a rival for your home theater with this amazing combination of satellite stereo speakers and a subwoofer. ❧ Cambridge SoundWorks / (800) 367-4434 / $199 / *Reader Service No. 693*

Ensoniq Soundscape Elite Ensoniq took an already good sound card and made it a great one by adding more wavetable ROM and high-quality effects. ❧ Ensoniq Corp. / (800) 942-0096 / $169 / *Reader Service No. 694*

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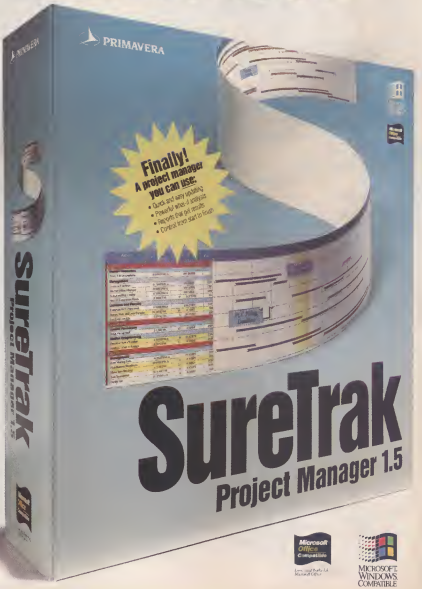

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MVP: Scanners

Hewlett-Packard ScanJet 3c

For less than $1,000, HP's ScanJet 3c gives you all the tools you need to perform image editing and text recognition, plus a generous software bundle: Corel's PhotoPaint 5.0, Caere's WordScan 3.1, and a built-in photocopy utility. Whether you need high-caliber line art or photographs, the ScanJet 3c offers fast, hassle-free scanning. Its successor, the ScanJet 4c, adds Visioneer's MVP award-winning PaperPort software, and will be available by the time this issue hits the newsstands.

ScanJet 3c / Hewlett-Packard / (800) 752-0900 / $825 / *Reader Service No. 695*

Runners-up

Umax Vista-S8 Pro/Envisions 8800S These scanners, based on the same 24-bit engine, offer excellent quality at an amazing price. ❧ Umax Technologies; Envisions Solutions Technology / (800) 562-0311; (800) 365-7226 / both $699 / *Reader Service No. 696*

Microtek ScanMaker IIHR Take a great scanner, bundle it with intelligent scanning software, and you have a combination that's hard to beat. ❧ Microtek Lab / (800) 654-4160 / $799 / *Reader Service No. 697*

MVP: Modems

U.S. Robotics Courier I-Modem

Can't decide whether to go analog or digital? U.S. Robotics' Courier I-Modem with ISDN/V.34 gives you the best of both worlds, offering the fastest access times available for analog and digital connections. On the analog side, the 28.8Kbps rate provides speedy access to online services, BBSs, and fax machines. On the digital side, the 128Kbps rate gives you lightning-quick I-Way-surfing and telecommuting sessions on digital ISDN networks. Either way, it's the only modem you'll need.

Courier I-Modem / U.S. Robotics / (800) 877-2677 / $699, external / *Reader Service No. 698*

Runners-up

Xircom CreditCard Ethernet+Modem 28.8 On-the-go pros need two ways to get online: one if by LAN, two if by phone. Whichever, Xircom's combo card is the ticket. ❧ Xircom / (800) 438-4526 / $465, 10Base-T; $545, 10Base2 / *Reader Service No. 699*

Cardinal MVP288IV Cardinal's inexpensive modem supports Plug and Play and Radish's VoiceView, and doubles as an answering machine with caller identification. ❧ Cardinal Technologies / (717) 293-3049 / $185, internal / *Reader Service No. 700*

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MVP: Networking Hardware

Ascend Pipeline 50

If you want the fastest possible Internet-connection hardware for home or work, get Ascend's Pipeline 50 ISDN bridge. The Pipeline 50's dynamic bandwidth allocation adjusts your use of the ISDN line as you need it, opening it up to 128Kbps for intensive transfers and closing it down when it's not in use. Just plug a network cable and an ISDN line into the Pipeline 50, configure the hardware, add a service provider, and *pop*, you have instant Internet connections for your entire network.

Pipeline 50 / Ascend Communications / (800) 621-9578 / $1,495 list price / *Reader Service No. 701*

Runners-up

Intel EtherExpress Pro/100 Adapter Don't lose sleep wondering when the 100Mbps network is coming. Install EtherExpress Pro/100 cards now, and you're ready for the future. ❧ Intel Corp. / (800) 538-3373 / $259 / *Reader Service No. 702*

3Com LinkBuilder FMS 100 SuperStack hub Time to overhaul the network and take it to Fast Ethernet speed? Then it's time for 3Com's 100Mbps Fast Ethernet stackable hub. ❧ 3Com Corp. / (800) 638-3266 / $2,899 / *Reader Service No. 703*

MVP: Small Office/Home Office

Brother MFC-4500ML

It's a small miracle: laser printer, copier, fax machine, fax modem, and scanner in one tiny 18-inch-square footprint. Brother's MFC-4500ML embodies what multifunction devices should be all about. Its 600-dpi laser output doesn't compromise on quality, and the 6-page-per-minute print engine is perfect for small-office settings. No information systems manager? No worries. Brother's software is easy to use and configure—letting you spend your time on more important things.

MFC-4500ML / Brother Int'l Corp. / (800) 284-4357 / $999 / *Reader Service No. 704*

Runners-up

Artisoft LANtastic Power Suite Want more from LANtastic than easy peer-to-peer networking? How about Lotus, Cheyenne, and NetCom software thrown in free! ❧ Artisoft / (800) 233-5564 / $199 / *Reader Service No. 705*

Visioneer PaperPort Fight back the waves of paper flooding your in-box with the best personal-page-scanner–hardware-software package out there—the PaperPort. ❧ Visioneer Communications / (800) 767-7007 / $369 / *Reader Service No. 706*

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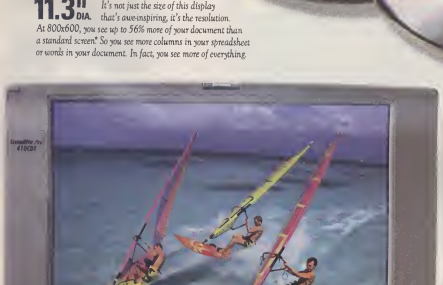

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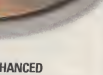

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- Integrated modular Quad-Speed CD-ROM
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410CS:**

- 11.3" dia. color DSTN dual-scan display supporting 256 simultaneous colors at 800x600 resolution
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All prices, specifications and availability are subject to change. *Standard 640x480 resolution screen. **The 410CS is sold at selected resellers as the 415CS with Windows® 95 and additional pre-installed software. †Price for 410CS with the modular FDD only. A Quad-Speed CD-ROM is available as an optional upgrade. ©1995 Toshiba America Information Systems, Inc. All products indicated by trademark symbols are trademarked and/or registered by their respective companies. Intel Inside and Pentium Processor Logos are trademarks of Intel Corporation.

Circle 215 on reader service card.

MVP: Business Application Suites

Microsoft Office for Windows 95

It was a tough act to follow, but the world's best-selling applications got even better. Microsoft infused all the Windows 95 usability enhancements into its popular suite and came up with a blockbuster. In fact, it's one of the single best reasons to upgrade to Windows 95. The new Office includes lots of features that integrate all its individual apps into a powerful whole, including the slick new Binder and more cross-application Wizards. If you buy only one software package, this should be it.

Office for Windows 95 / Microsoft Corp. / (800) 426-9400 / $499 Standard Edition, $209 upgrade / *Reader Service No. 715*

Runners-up

Novell PerfectOffice 3.0 Business users looking for a powerful alternative that emphasizes group communications will find it in PerfectOffice. ❧ Novell / (800) 321-4566 / $659 list price / *Reader Service No. 716*

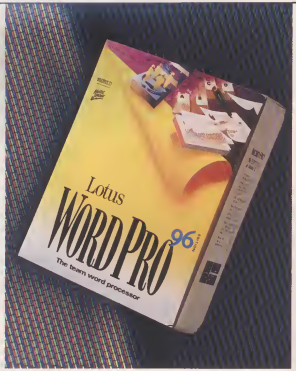
Lotus SmartSuite 4.0 for Windows 3.1 Still committed to Windows 3.1? We understand. Lotus SmartSuite includes MVP-winning Word Pro 96 and other terrific apps. ❧ Lotus Development Corp. / (800) 343-5414 / $399 / *Reader Service No. 717*

MVP: Word Processors

Lotus Word Pro 96 for Windows 3.1

Lotus has rewritten the rules of word processing. Word Pro 96 for Windows 3.1 has the features you've always wanted—including incredibly handy InfoBoxes that group common formatting functions and make the changes as you watch. Even better, if your documents are read by several pairs of eyes, Word Pro's TeamReview feature lets you easily incorporate comments and suggestions from coworkers. It was a long time coming, but Word Pro 96 was definitely worth the wait.

Word Pro 96 for Windows 3.1 / Lotus Development Corp. / (800) 343-5414 / $105 / *Reader Service No. 718*



Runners-up

Microsoft Word for Windows 95 The latest version of the word-processing standard has every feature you could possibly need and a few more. ❧ Microsoft Corp. / (800) 426-9400 / $339 / *Reader Service No. 719*

Novell WordPerfect 6.1 You don't get any more tried-and-true than WordPerfect 6.1 running on Windows 3.1. It's also a great cross-platform application. ❧ Novell / (800) 321-4566 / $225 / *Reader Service No. 720*

MVP: Spreadsheets

Microsoft Excel for Windows 95

Microsoft's Excel dominates Windows spreadsheets because it's an ultracapable product that gets better with each upgrade. The Windows 95 version adds even more to Excel's rock-solid feature base, including automated functions that help you quickly fill out, calculate, analyze, and format your worksheets, plus a mapping function for geographical analysis of your data. And its new Shared List feature lets you and your coworkers edit and update a data list simultaneously.

Excel for Windows 95 / Microsoft Corp. / (800) 426-9400 / $339 / *Reader Service No. 721*

Runners-up

Lotus 1-2-3 Release 5 The granddaddy of all spreadsheets, 1-2-3 remains the most comfortable application for many longtime number crunchers. ❧ Lotus Development Corp. / (800) 343-5414 / $299 / *Reader Service No. 722*

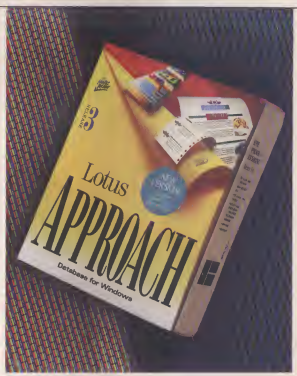
Novell Quattro Pro 6.0 If ease of use is your primary consideration for choosing a spreadsheet program, Quattro Pro 6.0 is for you. ❧ Novell / (800) 321-4566 / $395 / *Reader Service No. 723*

MVP: Databases

Lotus Approach 3.0

Approach achieves the impossible: finally, a full-powered relational database that requires no programming. Really. In our usability tests, power users liked Approach as much as novices did. The program's Smart Assistants let you easily create full-blown database applications, and even help you make changes later. Approach's InfoBox puts all the essential formatting functions at your fingertips. Whether you need a simple contact list or a complete sales and tracking system, Approach has the power you need.

Approach 3.0 / Lotus Development Corp. / (800) 343-5414 / $109 list price / *Reader Service No. 725*



Runners-up

Microsoft Access 2.0 The programmer's favorite. It's fast, powerful, efficient, and easy to use. ❧ Microsoft Corp. / (800) 426-9400 / $339 / *Reader Service No. 724*

Microsoft Visual FoxPro 3.0 Microsoft's programmable database offers professional power and a new, more usable interface. ❧ Microsoft Corp. / (800) 426-9400 / $199 Standard Edition, $499 Professional Edition / *Reader Service No. 726*

MVP: Presentation Graphics

Microsoft PowerPoint for Windows 95

Creating presentations has never been this easy. Thanks to its integration with other applications in Microsoft's Office and a complete collection of attractive templates, PowerPoint makes it easy to transform your existing work into persuasive presentations. The new version benefits from Windows 95's interface enhancements, and includes the capability to make presentations across a network, a new Meeting Minder feature for taking notes during presentations, and a host of graphic-display improvements.

PowerPoint for Windows 95 / Microsoft Corp. / (800) 426-9400 / $339 / *Reader Service No. 727*

Runners-up

Gold Disk Astound 2.0 for Windows Creating multimedia presentations is simple with Astound—it even lets you publish your work easily on the Net. ❧ Gold Disk / (800) 982-9888 / $250 / *Reader Service No. 728*

Software Publishing ASAP Want to make quick, hassle-free presentations? Use ASAP and create good-looking results as fast as . . . well, ASAP. ❧ Software Publishing Corp. / (408) 986-8000 / $99 / *Reader Service No. 729*

MVP: Business Graphics

CorelDraw 6

It's more than just an illustration powerhouse—CorelDraw 6 also has a comprehensive collection of graphics tools suitable for business users or artists. The CorelDraw 6 package includes an image editor, 3-D rendering software, 3-D animation software, a presentation package, a variety of useful utilities, and thousands of fonts and clip-art samples integrated with a smooth new interface. Each of the individual apps is powerful and feature-rich on its own, but the combination is even more impressive.

CorelDraw 6 / Corel Corp. / (800) 772-6735 / $487 / *Reader Service No. 730*

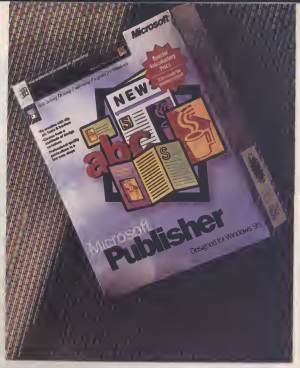
Runners-up

Visio 4.0 It's easy to use and Microsoft Office–compliant. Just drag and drop predrawn objects, and you can create instant flowcharts and layouts. ❧ Visio Corp. / (800) 446-3335 / $149 / *Reader Service No. 731*

Micrografx ABC Graphics Suite 1.0 Add a complete suite of powerful graphics and illustration apps to Microsoft's Office with this feature-packed bundle. ❧ Micrografx / (800) 676-3110 / $299 / *Reader Service No. 732*

MVP: Desktop Publishing

Microsoft Publisher for Windows 95



Great-looking newsletters, flyers, and greeting cards can be tough to make, but the new version of Microsoft Publisher does most of the hard work for you. Publisher's PageWizards, design assistants, and cue cards make the application foolproof. No matter what you want to publish, the program holds your hand through the entire process, coaching you on style and features. Microsoft's Publisher even comes with a book on how to create good, effective designs.

Publisher for Windows 95 / Microsoft Corp. / (800) 426-9400 / $80 / *Reader Service No. 733*

Runners-up

QuarkXPress 3.31 OK, so it's still a Windows 3.1 app. Regardless, QuarkXPress is the best choice for serious, cross-platform publishing. ❧ Quark / (800) 788-7835 / $600 / *Reader Service No. 734*

Adobe PageMaker 5.0 With a 32-bit upgrade just around the corner, PageMaker 5.0 remains the easiest professional publishing tool you can buy. ❧ Adobe Systems / (800) 521-1976 / $549 / *Reader Service No. 735*

MVP: Illustration and Image Editing

Fractal Design Painter 3.1

Fractal Design's Painter is one of the few products that actually changes the way people work. A natural-media painting program that mimics traditional methods of creating art, Painter lets you use pressure-sensitive brushes to simulate chalk, oils, airbrushes, watercolors, and other art tools never before electronically available. It also offers powerful features for manipulating images—or even digital movies—with a single mouse-click. If you're serious about computer art, you need Painter.

Painter 3.1 / Fractal Design Corp. / (800) 297-2665 / $349 / *Reader Service No. 736*

Runners-up

Adobe Photoshop 3.04 Although it's due for an upgrade, this image-editing program is still the standard. ❧ Adobe Systems / (800) 521-1976 / $549 / *Reader Service No. 737*

Asymetrix 3D F/X Regardless of your artistic abilities, this slick new package puts drag-and-drop 3-D drawing and animation within your reach. Really. ❧ Asymetrix Corp. / (800) 448-6543 / $69 / *Reader Service No. 738*

MVP: Document Management

Adobe Acrobat Capture 1.0

The paperless office is still a dream, but Adobe's Acrobat Capture lets you turn mountains of documents into searchable electronic versions that look just like the originals. Based on Adobe's powerful Portable Document Format (PDF), Acrobat Capture incorporates OCR with technologies that recognize and retain font styles and page layouts. As a result, the program can magically make your documents portable files that you can share with anyone, anywhere.

Acrobat Capture 1.0 / Adobe Systems / (800) 833-6687 / $2,995 / *Reader Service No. 739*

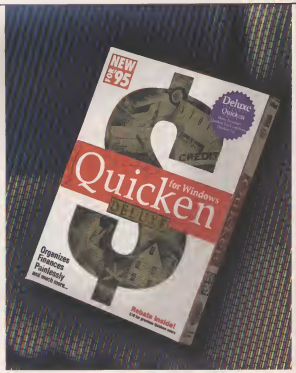
Runners-up

Caere OmniPage Pro 6.0 The most accurate OCR program for Windows 3.1 users. OmniPage Pro 6.0 easily handles fonts, numbers, graphics, and shading. ❧ Caere Corp. / (800) 535-7226 / $499, $149 upgrade (list) / *Reader Service No. 740*

Caere PageKeeper 2.0 Keep track of every document that crosses your path with the best personal-document management software available. ❧ Caere Corp. / (800) 535-7226 / $99 / *Reader Service No. 741*

MVP: Personal Finance

Intuit Quicken Deluxe 4



Need to manage everything from checking and savings accounts to investments and taxes? There's simply no better way than with Intuit's Quicken Deluxe. Even Bill Gates wanted it. The Deluxe version of the No. 1 financial-software package includes interactive multimedia advice from financial experts, as well as a mutual-fund selector, a stock guide, and stock quotes. The next version, Quicken 5, will incorporate all the features of Quicken 4 into a graceful HomeBase interface, and add online banking.

Quicken Deluxe 4 / Intuit / (800) 624-8742 / $59 / *Reader Service No. 742*

Runners-up

Microsoft Money for Windows 95 If you need financial software that handles the basics—paying bills, verifying balances, and getting account status—Money is a solid choice. ❧ Microsoft Corp. / (800) 426-9400 / $34 / *Reader Service No. 743*

Portable Software QuickXpense 1.6 The leader in painless, hassle-free expense reports, QuickXpense provides custom-built forms even Scrooge would accept. ❧ Portable Software Corp. / (800) 478-7414 / $69 / *Reader Service No. 744*

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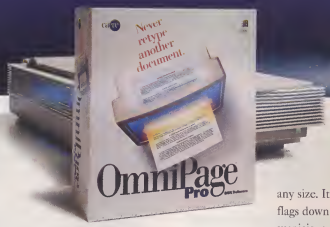

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*Suggested retail price $129 dollars—subject to change without notice. **Free upgrade plus shipping and handling charges—Windows 95 version will be available in early 1996. Caere the Caere logo, OmniPage, WordScan and True Page are registered trademarks and AutoOCR Toolbar is a trademark of Caere Corporation. All other names are the property of their respective holders. © 1996

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MVP: Accounting

Intuit QuickBooks Pro

Small businesses have diverse accounting needs, and Intuit's QuickBooks Pro handles them all with aplomb. In addition to straightforward money-tracking features like those found in Intuit's own Quicken, QuickBooks Pro handles invoicing, payroll, and inventory tracking. It even lets you easily document your time, prepare bids, and analyze job costs. The program's simple, intuitive interface hides all the confusing accounting jargon, letting you concentrate on your company's success.

QuickBooks Pro / Intuit / (800) 624-8742 / $189 / *Reader Service No. 745*

Runners-up

Peachtree Accounting for Windows Release 3.0 This package does more than just balance the books; it includes every module you need to monitor your business. ❧ Peachtree Software / (800) 247-3224 / $119 / *Reader Service No. 746*

BestWare M.Y.O.B. Accounting 5.0 BestWare's flexible, fast accounting solution helps you mind your own business quickly and professionally. ❧ BestWare / (800) 322-6962 / $115 / *Reader Service No. 747*

MVP: Management Software

Microsoft Project for Windows 95

Whether you're managing a project, planning staff schedules, or setting new goals, Microsoft's powerful Project for Windows 95 makes it easy to organize your work and share your plans with coworkers. Project's new Planning Wizards help you organize your thoughts, and the Outlining feature gives you an easy-to-understand overview of your work. Project's new OfficeLinks let you leverage the resources and features of Microsoft's Office for Windows 95.

Project for Windows 95 / Microsoft Corp. / (800) 426-9400 / $469 / *Reader Service No. 748*

Runners-up

Primavera SureTrak Project Manager 1.0 If you need a strong, traditional project manager with excellent resource-allocation features, check out SureTrak. ❧ Primavera Systems / (800) 973-1335 / $299 / *Reader Service No. 749*

Avantos ManagePro 3.0 for Windows Forget the usual jargon. Organize all your time lines, to-do lists, goals, and reports with an interface anyone can understand. ❧ Avantos Performance Systems / (800) 282-6867 / $199 / *Reader Service No. 750*

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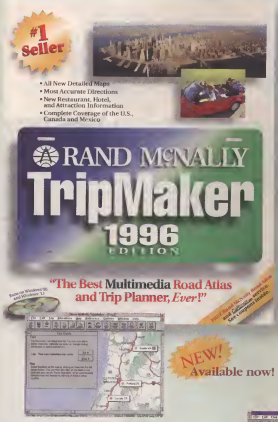

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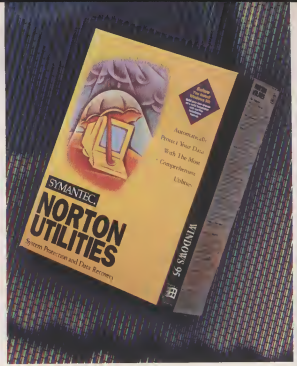
MVP: Utilities

Symantec Norton Utilities for Windows 95



Norton Utilities has long been the utilities standard. It still is. Built around a simple, straightforward interface, Symantec's Windows 95 version offers an impressive new collection of safety and diagnostic tools. The Norton System Doctor constantly monitors your system's performance. And the package's excellent data-recovery features, which have been improved for the new operating system, keep things running smoothly. Now Windows 95 users can feel safe, too.

Norton Utilities for Windows 95 / Symantec Corp. / (800) 441-7234 / $80 / *Reader Service No. 751*

Runners-up

Vertisoft Remove-It 2 It's 10 o'clock. Do you know where your applications are? Remove-It does, and it knows which ones are just taking up space. ❧ Vertisoft Systems / (800) 466-5875 / $40 / *Reader Service No. 752*

Nico Mak WinZip 6.0 for Windows 95 These days everybody needs a good unzipping utility. This is the best. ❧ Nico Mak Computing / http://www.winzip.com/winzip / (800) 242-4775 / $29 shareware registration fee / *Reader Service No. 753*

MVP: Operating Systems

Microsoft Windows 95

No product introduction ever created the mass hysteria that Windows 95 did. Was it worth all the hoopla? Our answer is a resounding *yes*—especially if you consider how Microsoft has balanced backward-compatibility with important new features. Windows 95 deftly handles both your old 16-bit software and new 32-bit apps. Most important, it's solid. The slick new interface is powerful yet easy to master, and connecting to anything—from your network to the Internet—is easy.

Windows 95 / Microsoft Corp. / (800) 426-9400 / $90 / *Reader Service No. 754*

Runners-up

Microsoft Windows NT 3.5.1 It's a bulletproof 32-bit operating system that works equally well on application servers and high-end workstations. ❧ Microsoft Corp. / (800) 426-9400 / $289, workstation; $649, server / *Reader Service No. 755*

Novell NetWare 4.1 The latest version of NetWare offers huge leaps in ease of installation as well as a polished directory service. ❧ Novell / (800) 346-7177 / $1,095 for five users / *Reader Service No. 756*

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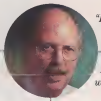

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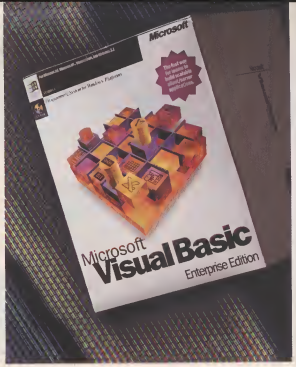
MVP: Application Development

Microsoft Visual Basic 4.0

With version 4.0, Visual Basic takes the art of graphical-application development to new heights by offering more sophisticated features and an even easier interface. For high-end work, Visual Basic 4.0 incorporates 32-bit OLE controls and support for enterprise-based client-server development. The program is so versatile you can also use it for simple tasks such as creating custom front ends to Microsoft's Office applications. Either way, Visual Basic 4.0 delivers.

Visual Basic 4.0 / Microsoft Corp. / (800) 426-9400 / $99, Standard Edition; $499, Professional Edition; $899, Enterprise Edition / *Reader Service No. 757*



Runners-up

Borland Delphi for Windows Thanks to its object-oriented structure, this completely visual development environment will have you creating applications in minutes. ❧ Borland Int'l / (800) 233-2444 / $349 / *Reader Service No. 758*

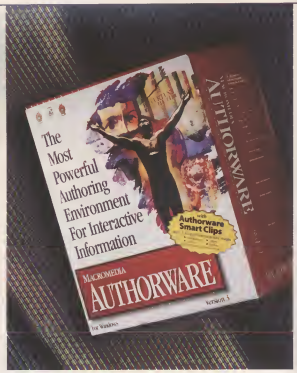
Borland Turbo C++ 4.5 for Windows Programmers looking for straightforward alternatives to the hassles of big compilers will find Turbo C++ an excellent match. ❧ Borland Int'l / (800) 233-2444 / $79 / *Reader Service No. 759*

MVP: Multimedia Development

Macromedia Authorware 3

Multimedia authoring packages are notoriously difficult to use, but Macromedia's new version of Authorware is different. The application's intuitive, icon-based interface includes graphical, flowchartlike programming tools. Authorware lets you move quickly from prototyping to final production, and it's particularly useful for creating educational and training-based programs. New hypertext features also make it easy to add interactive links throughout your work.

Authorware 3 / Macromedia / (800) 945-4061 / $4,995 list price / *Reader Service No. 760*

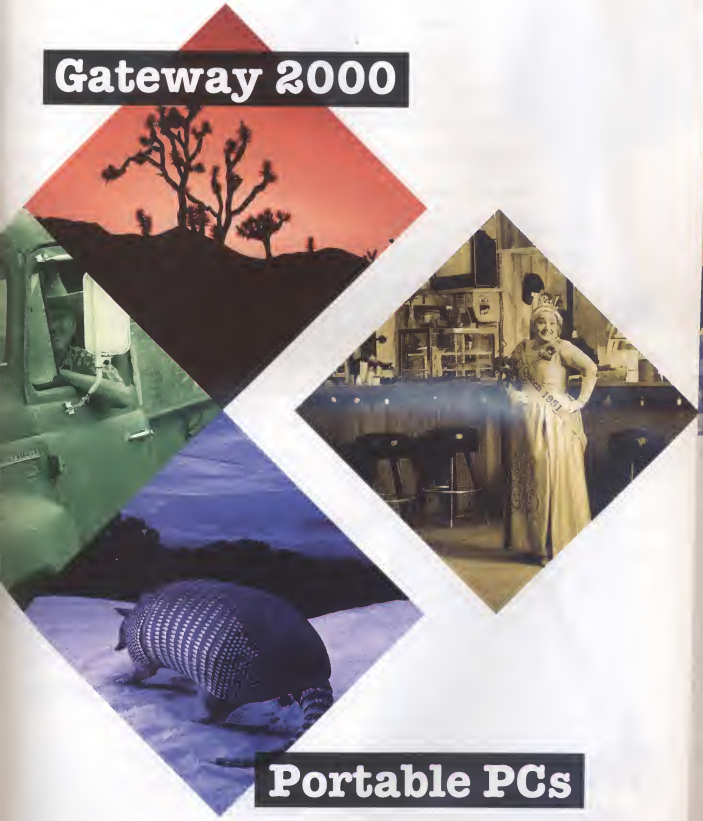


Runners-up

Adobe Premiere 4.0a If you're eager to spice up your multimedia creations with compelling digital video, Adobe's video-editing powerhouse is the premier choice. ❧ Adobe Systems / (800) 833-6687 / $695 list price / *Reader Service No. 761*

Autodesk 3D Studio Add a new dimension to your creative work with this awesome 3-D image-creation, image-editing, and animation package. ❧ Autodesk / (800) 879-4233 / $2,995 / *Reader Service No. 762*

Gateway 2000



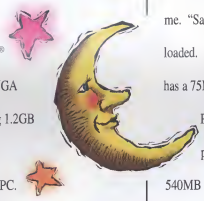
Portable PCs

I needed out. My buddies in the programming lab were getting to me. So I tossed my Gateway Solo™ S120 Best Buy multimedia notebook into my pack and headed for the desert. Nothing like a little hot earth to clear the mind.

GATEWAY2000 SOLO

Man, I love this machine!

There I was. Miles from anywhere, just working away. Thinking — *man, I love this machine*! Everything I need, right at my fingertips. A powerful 120MHz Intel® Pentium® processor, active matrix SVGA color display, 16MB RAM, whopping 1.2GB hard drive, and CD-ROM drive — it's high-end desktop power in a portable PC.



Perched on a rock, jamming to my favorite tunes (thanks to the 16-bit sound stereo speakers and CD-ROM drive), I watched the moon begin its journey across the night sky.

Off in the distance I saw headlights and heard the whining of an engine begging for a tune-up. Soon a battered old truck screeched to a halt in front of me. Over the dull roar of honky-tonk music I heard, "Need a lift buddy?" Sure, why not.

"My name's Ned. And this here's Chuck." He gestured to the armadillo curled up next to him. "I'm in 'crete." 'Crete? "Yea, lots of opportunity in concrete. Spend a lot of time on the road. But I like it that way. Say you got yourself a pretty nifty Gateway 2000® notebook. Me too. Wouldn't make a move without Sally here," Ned smiled as he patted the Gateway Solo V75 notebook sitting on the dash. Sally? "That's what I call her, after a certain waitress in Tucson," Ned winked at me. "Sally's loaded. She has a 75MHz Pentium processor, 8MB RAM, 540MB hard drive, and CD-ROM drive." He winked at me again.

Gateway Solo notebooks are optimized for Microsoft Windows® 95.

Ned named his portable Sally.

"It has all the features I need while I'm on the road. Isn't that right Chuck?

EZ Pad™ pointing device for easy cursor navigation.

"I'm mighty fond of Gateway 2000. Best values in portable PCs around," smiled Ned. "And their portable line has something for everyone."

More co
more

The radio droned on as Ned, Chuck and I continued on our trek through the dark desert.

Armadillos like to have their heads rubbed. At least Chuck did. Up ahead I saw the neon sign of a roadhouse — a beacon in the darkness.

"I could use some grub. How 'bout you?" asked Ned as he pulled the truck into the dirt parking lot.

There she stood in all her glory. Tiara and satin dress shimmering beneath the fluorescent lights. "Next tour's in 15 minutes, honey," she said. Tour? "My name's Delilah, and I give the best moonlit desert tours in the West. Is that a Gateway Solo notebook?" she asked eyeing my portable.

nputing, places.

Gateway Solo models feature two integrated stereo speakers.

"I have a Gateway Liberty small notebook. It's packed with fabulous features like a 540MB removable hard drive, and it weighs a mere 4.2 pounds! Why, this glorious PC has won nearly as many awards as I have! And the best part," Delilah leaned in closer. "Its huge 10.4-inch color screen is dual-scan for extra privacy." I suppressed the urge to ask the Desert Queen about the secrets she was keeping from the world.

"Honey, the folks at Gateway 2000 are just great. Can you

The folks at Gateway 2000 are just great.

believe that each system gets 24-hour, seven-day-a-week technical support? And their values just can't be beat," said Delilah with a far off look in her eyes. I had a feeling my adventures were just beginning.

For more computing, more places — call Gateway 2000 today.

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DX4-100 DELUXE

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DX4-100 BEST BUY

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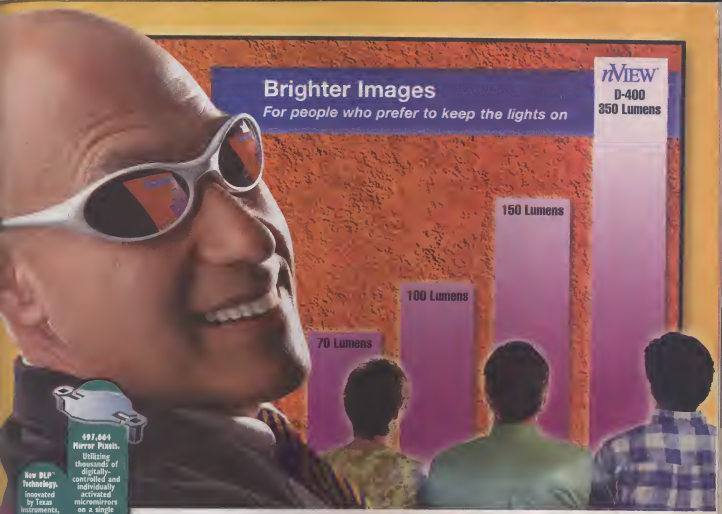

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MVP: Communications Software

Delrina Communications Suite 2.1

Delrina's Communications Suite 2.1 combines the industry's best fax software with an intuitive communications package. Instead of forcing you to learn two interfaces, it gives you all the tools you need to handle any type of digital communications, including Internet e-mail. WinComm even offers automatic virus detection during downloads. Use WinFax and WinComm together to send, receive, and mark up faxes, then drop them in folders or e-mail them to someone else. It couldn't be easier.

Communications Suite 2.1 / Delrina Corp. / (800) 239-2254 / $99 / *Reader Service No. 763*

Runners-up

Farallon Timbuktu Pro for Networks This is the ultimate in remote-control software for use over a network or dial-up connection. ❧ Farallon Computing / (510) 814-5000 / $139 for two users, $599 for ten users / *Reader Service No. 764*

Traveling Software LapLink Wireless When you need to swap some data, most people think of LapLink. Now you don't even have to think about a cable. ❧ Traveling Software / (800) 343-8080 / $299 / *Reader Service No. 765*

MVP: Network Software

Intel LANDesk Management Suite 2.01

If you manage NetWare networks, Intel's LANDesk is the one-stop solution. This integrated network desktop-management suite provides every function an administrator could ever need, including resource inventory, remote control, software distribution, printer management, and virus protection. Built-in scripting functions let you automate these tasks. All this power is usable too, thanks to a straightforward interface that you can run from any desktop machine.

LANDesk Management Suite 2.01 / Intel Corp. / (800) 538-3373 / $595 for five nodes / *Reader Service No. 766*

Runners-up

IBM NetFinity 3.0 IBM's client-management suite gives you complete control over all aspects of your network. ❧ IBM / (800) 426-3333 / $79 single user, $599 multiple users (list prices) / *Reader Service No. 767*

Symantec Norton Administrator for Networks 2.0 The Windows 3.x network favorite now includes a Windows 95 client. ❧ Symantec Corp. / (800) 441-7234 / $50 per node for 10 users, $40 per node for 1,000 users / *Reader Service No. 768*

Our huge 10.4" screen delivers the maximum in viewing comfort. The Dual Scan model support 256 colors, while the TFT Active Matrix model supports up to 64,000 colors, producing high-quality color matching. And all our screens support super VGA 800 x 600 resolution

Push a button — load your next CD-ROM disk. And our front-loading, conveniently accessible CD-ROM drive is easily removed from the Slimnote's flexible media bay. When you need to, replace the entire unit in seconds, inserting a 1.44 Mb floppy drive in its place. Or if you want, double your battery life with a second lithium ion battery

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PC Computing, August, 1995

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Slimnote 875CX $2999
(Business Lease $101/Mo.)
75MHz Pentium Processor, 8Mb RAM, 10.4" 800 x 600 x 256 Dual Scan color display, 340Mb hard disk

Slimnote 875TX $4499
(Business Lease $151/Mo.)
75MHz Pentium Processor, 16Mb RAM, 256Kb, cache RAM, 800 x 600 x 64K TFT Active Matrix color display, 500Mb hard disk

Slimnote 890CX $3499
(Business Lease $118/Mo.)
90MHz Pentium Processor, 8Mb RAM, 256Kb cache RAM, 10.4" 800 x 600 x 256 Dual Scan color display, 500Mb hard disk

Slimnote 890TX $4799
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MVP: E-mail and Groupware

Novell GroupWise 4.1

Most groupware hasn't lived up to its billing, but Novell's GroupWise 4.1 is an exception. GroupWise lets you share data, collaborate, and communicate easily with your coworkers whether you're in the office or on the road, thanks to its multiplatform e-mail and group scheduling. The program's task-management features also help you organize your own work. GroupWise's text-to-speech technology even lets you have your e-mail, faxes, or schedule read to you over the phone.

GroupWise 4.1 / Novell / (800) 346-7177 / $695 for five clients, $485 to $2,485 per server / *Reader Service No. 769*

Runners-up

Lotus Notes 3.3 Create powerful groupware solutions with Notes, and share information with anyone, anytime, anywhere. ❧ Lotus Development Corp. / (800) 343-5414/ $275 client and server (for 50 or more users) / *Reader Service No. 770*

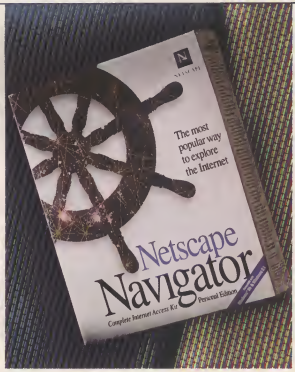
PictureTel Live PCS 50 When a phone call won't do it and you can't make a personal visit, PictureTel's videoconferencing with document sharing is the ticket. ❧ PictureTel Corp. / (800) 716-6000 / $2,495 list price / *Reader Service No. 771*

MVP: Web Browsers

Netscape Navigator 1.2 Personal Edition

As interest in the World Wide Web surges, Netscape's Navigator remains the top browser, thanks to its simple interface and many powerful features. The shrink-wrapped Personal Edition includes easy, one-click subscription offers from five popular Internet service providers, so you can start surfing instantly. By the time you read this, Navigator 2.0 will be available, adding built-in viewers, integrated e-mail and newsgroup readers, and support for Sun Microsystems' Java applets.

Navigator 1.2 Personal Edition / Netscape Communications / (800) 838-7483 / $39 / *Reader Service No. 772*



Runners-up

Quarterdeck InternetSuite Get easy access to the Internet with five superior Net tools that are united by a single, intuitive interface. ❧ Quarterdeck Corp. / (800) 354-2834 / $40 / *Reader Service No. 773*

Stac InterAp 3.1 Organize your favorite Web sites quickly with InterAp's powerful, hierarchical bookmark system. ❧ Stac / (800) 522-7822 / $99 / *Reader Service No. 774*

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Fortress quality power protection arrests them all.

Fortress® uninterruptible power systems stop this crime wave cold. With advanced features like Adaptive Power Tracking, Fortress—unlike some "UPS"—prevents any break in computer-grade power to your system.

As for violent crime, Fortress passed grueling tests to earn its UL 1449 badge for lightning and surge protection.

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In the 1994 Reliability Ratings Survey, the BEST Fortress customer satisfaction/reliability score was higher than any other (UPS) vendor surveyed – 4.94 average rating on a 1-to-5 scale. All surveyed would buy BEST again.

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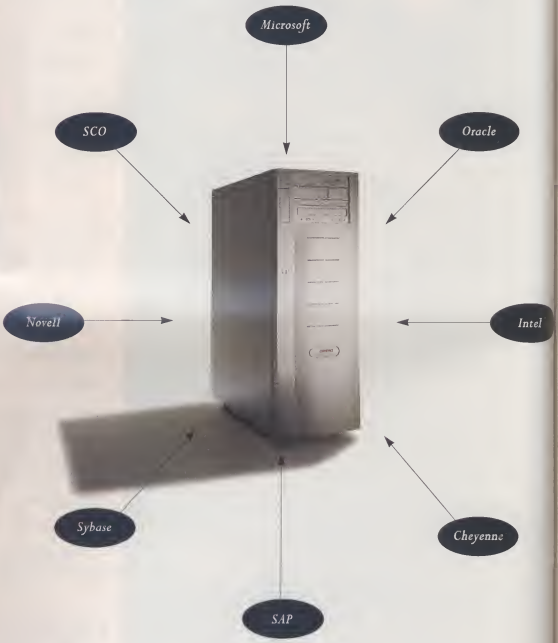

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You see, they may be Compaq servers. But they are Compaq-Microsoft-Oracle-SAP-Intel-Novell-SCO-Sybase-Cheyenne solutions. (We just couldn't fit all those logos on them.)

COMPAQ

Has It Changed Your Life Yet?

MVP: Online Services

America Online 2.5

Over the past year America Online has proven decidedly that a friendly interface does not necessarily mean an inferior service. America Online has enjoyed tremendous growth in members as well as the quantity and quality of its online resources, thanks in part to its aggressive marketing efforts. Version 2.5 of the access software sports an integrated Web browser and an interface that still sets the standard for the rest of the online industry. Whatever you need, you can usually find it on America Online.

America Online 2.5 / America Online / (800) 827-636A / $9.95 per month / *Reader Service No. 775*

Runners-up

CompuServe WinCIM 1.4 Need a CD-ROM driver? Want to write to a friend in Finland? CompuServe spans the globe, offering the best files anywhere. ❧ CompuServe Information Systems / (800) 848-8199 / $9.95 per month / *Reader Service No. 776*

Personal Journal Get a customized version of the *Wall Street Journal* delivered to your desktop every day. ❧ Dow Jones/Wall Street Journal / (800) 291-9382 / $12.95 per month / *Reader Service No. 777*

MVP: Internet Tools

InfoSeek

The Web can be a forbidding wilderness without the right search tool. You need one that's comprehensive without being too broad—one that provides well-structured hit lists with explanations for each. The winner is InfoSeek, a two-pronged service that offers free Web-page searches and a fee-based engine that gives you access to 10,000 newsgroups and other proprietary content. InfoSeek understands natural-language queries and lets you save them, making it easy to update your searches.

InfoSeek / InfoSeek Corp. / http://www.infoseek.com / $9.95 per month standard, 100 free hits per search / *Reader Service No. 778*

Runners-up

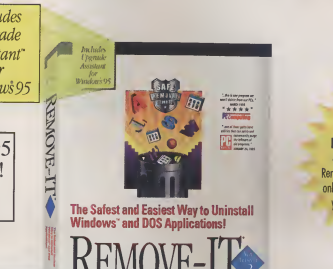
Netscape Communications Server 1.1 This is the smartest tool for posting and maintaining a home page on the Web. ❧ Netscape Communications / (800) 638-7483 / $795 for Windows NT, $1,495 for Unix platform / *Reader Service No. 779*

SoftQuad HotMetal Pro 2.0 Creating, editing, and publishing home pages in HTML just got a whole lot easier thanks to HotMetal's powerful features. ❧ SoftQuad / (800) 387-2777 / $195 list price / *Reader Service No. 780*

The Smart Way To Move to Windows® 95.

Includes Upgrade Assistant™ for Windows 95

Special Windows 95 Promotional Price!
Now for a limited time at participating resellers.



Attention Norton Desktop® for Windows, PC Tools® for Windows, and Dashboard® users!
Remove-IT's Upgrade Assistant is the only way to automatically configure your Windows 3.1 applications into Windows 95.

95 Remove-It 2 is already the safest and easiest way to clean unneeded applications and files from your PC. But it doesn't stop there. Remove-IT 2 also includes an exclusive Upgrade Assistant that ensures a near effortless move to Windows 95. The Upgrade Assistant is a personal guide that leads you step-by-step through the process of preparing your system for Windows 95. Here's how easy upgrading can be.

Pre-Installation Cleanup – The Upgrade Assistant reduces the chance of upgrade problems by carefully clearing valuable disk space to make room for Windows 95.

Windows 95 Configuration – If you decide to run both Windows 95 and Windows 3.1 until you're comfortable with the upgrade, the Upgrade Assistant will automatically configure your Windows 3.1 applications into Windows 95. Or if you use Norton Desktop, PC Tools, or Dashboard and install Windows 95 over Windows 3.1, the Upgrade Assistant will automatically transfer your Windows 3.1 program groups into Windows 95. Either way Remove-IT saves you the hassle of manually reinstalling every single application, or recreating all your program groups!

Post-Installation Cleanup – When you're ready to leave Windows 3.1 behind, the Upgrade Assistant will simply wash it away. All the unneeded remains of previous Windows installations are removed so that your PC runs at peak efficiency.

And the price for Remove-IT 2 with your "personal" Upgrade Assistant for Windows 95 is only **$44.95**. So, get smart! Ask for Remove-IT at your favorite retailer, or call our handy toll-free number: **1-800-380-2607. Ask for extension 1212.**

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"★★★★"
PC Computing
March 1995

"...one of those gotta have utilities that can safely and conveniently purge the leftovers of old programs."
PC MAGAZINE
January 24, 1995

"...comprehensive, intelligently designed and effective." "...helps prevent you from deleting necessary files"
WINDOWS MAGAZINE
February 1995

"One of Remove-IT's biggest advantages is its user interface."
PC WORLD
January 1995

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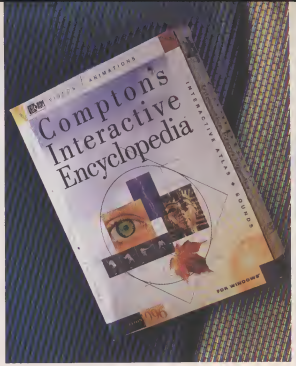
MVP: Business/Reference CD-ROMs

Compton's Interactive Encyclopedia

In the competitive world of electronic encyclopedias, Compton's offers the best combination of content and multimedia, as well as a choice of interfaces for browsing all that information. With its slick new Editing Room feature, your children can wow the teacher with a multimedia presentation instead of a simple book report. Like all reference works, its content becomes outdated, but Compton's is the first CD encyclopedia to go online—up-to-date articles are only a phone call away.

Compton's Interactive Encyclopedia, 1996 Edition / Compton's NewMedia / (800) 281-6109 / $60 / *Reader Service No. 781*



Runners-up

Argus Census Map USA Statistics and demographics take on a life of their own, thanks to the colorful, informative maps and graphs included on this CD. ❧ Argus Technologies Corp. / (800) 818-4118 / $100 / *Reader Service No. 782*

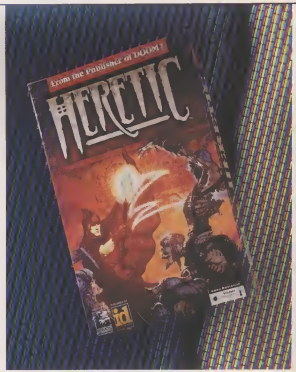
Microsoft Bookshelf 95 The latest version of Bookshelf offers quick, easy access to interesting information that will spice up your work. ❧ Microsoft Corp. / (800) 426-9400 / $70 / *Reader Service No. 783*

MVP: Entertainment CD-ROMs

Raven/id Heretic

Developed by id Software and Raven Software, and based on id Software's Doom engine, Heretic is more than mindless violence—although it has its share of spectacular action, whizbang weapons, and awful monsters. It draws you into an imaginative world filled with moving rivers, temples, caves, and mountains that are fascinating to explore, even if no shots are fired. But don't just take our word for it: Download the first episode from *PC Computing*'s online services (see page 366 for information).

Heretic / GT Interactive / (800) 610-4847 / $50 / *Reader Service No. 784*



Runners-up

Parallax Descent Think of this as Doom cubed. You move, not just horizontally in any direction, but vertically, too. Even enemy ships are surface-mapped 3-D objects. ❧ Interplay Productions / (800) 468-3775 / $35 / *Reader Service No. 785*

Sierra On-Line Phantasmagoria Many games mix video and animation, but the blend rarely works. This spooky adult game, filling seven CDs, succeeds—and makes for fascinating play. ❧ Sierra On-Line / (800) 757-7707 / $50 / *Reader Service No. 786*

A picture is worth a thousand words. Especially when your monitor shows all of them.

The ADI MicroScan™ 17X monitor is a concise answer to the problem of viewing oversized documents. It easily pivots from landscape to portrait mode—just click on the portrait driver icon, rotate the monitor and press the degauss button. You can view an entire legal or A4 page without scrolling or printing—ideal when you need to edit a lot of text. It also accommodates oversized spreadsheets, databases, and dozens of other applications.

Super-Large Display

The MicroScan 17X is like getting a 21" display for the price of a 17" monitor. Its vertical viewing area in portrait mode is larger than any 17" or even 21" monitor on the market. And to make a long story short, it saves you countless hours of scrolling through oversized documents.

High-Quality Feature Set

The MicroScan 17X has lots of other things to write home about. Like a 17" CRT display with a 16" diagonal viewing area, 1024 x 768 resolution, flicker-free 76Hz performance, .28mm dot pitch, digital and microprocessor controls, even Plug-n-Play compatibility. And it's all backed by a three-year warranty. This is a feature set you won't find in competitively priced products. And since ADI builds monitors for leading PC companies worldwide, you know you're making a quality investment for the long haul. Get the full story on the MicroScan 17X—call 1-800-228-0530 for your nearest ADI dealer.

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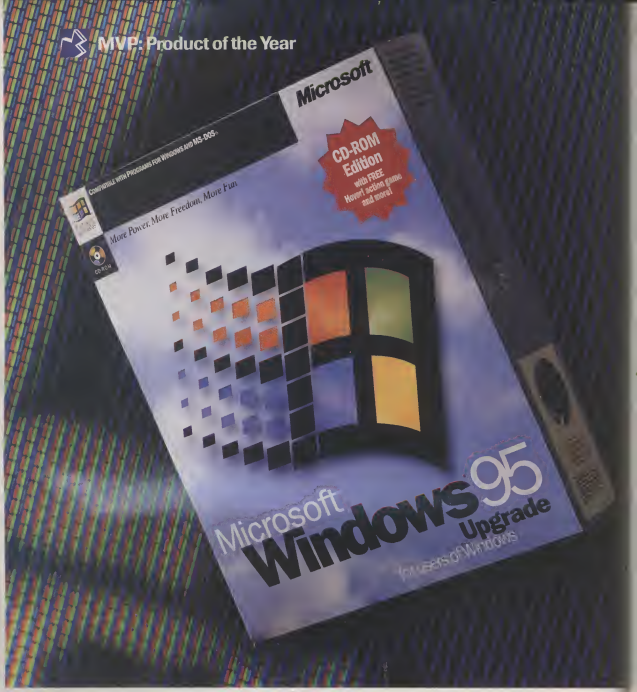

Microsoft Windows 95

Not many products completely revolutionize the personal computing industry, but Windows 95 did. It survived an avalanche of prerelease hype virtually unscathed because users found it to be a fundamentally great product. Microsoft made enormous strides in usability that affect every aspect of setting up, upgrading, and using personal computers. Windows 95's excellent interface is supported by a solid core of technologies and surprisingly good compatibility with older, 16-bit applications. Long-awaited features, such as support for Plug and Play and long filenames, were joined by conveniences like the Taskbar, the Start button, and one-click Internet connections. The end result is impressive.

Windows 95 / Microsoft Corp. / (800) 426-9400 / $89 / *Reader Service No. 792*

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for as little as $10,000

Powered by Pentium Pro processors

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Want to talk choices? Choose from a range of seven GLZ graphics accelerators; 16.8 million colors at 1- or 2-megapixel maximum resolutions; 12, 24, or 34 megabytes of high-speed VRAM; optional geometry acceleration; and hardware texture mapping with either 8 or 32 megabytes of texture memory.

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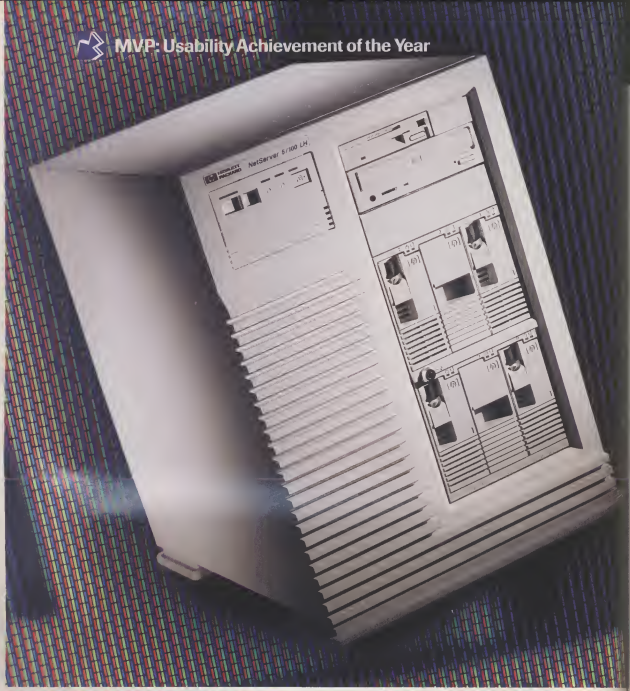


Hewlett-Packard NetServer 5/100 LH

Want proof that usability is the key to the future? Hewlett-Packard made even servers easy to use. Taking a cue from its award-winning printers, HP applied its usability magic to the notoriously difficult server category and created a winner. In addition to offering top-notch performance and easy expandability, the NetServer 5/100 LH comes equipped with a superb software bundle: NetServer Navigator, the setup software, smartly walks network administrators through server installation; and OpenView, the network-administration software, ensures that the NetServer and its attached network keep your business up and running. Don't worry if you lose the documentation—the NetServer even has basic setup info inside the front panel.

NetServer 5/100 LH / Hewlett-Packard / (800) 322-4772 / $6,209 / *Reader Service No. 664*

QUARTERDECK

INTRODUCING QEMM 8.
MORE MEMORY, MORE MEMORY, AND STILL MORE MEMORY
FOR WINDOWS 95, WINDOWS 3.1 AND DOS.

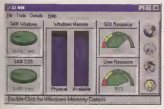
AMAZING NEW TECHNOLOGY

The world's best-selling memory management program is now bigger than ever.

Quarterdeck's QEMM 8 breaks through barriers to squeeze every last byte of memory out of your computer. With a program that's generations ahead in technology, safety and ease of use. And comprehensive enough to let you run all the applications you need, from 32-bit Windows 95 all the way back to DOS.

QEMM 8 uses three key technologies:

QEMM's memory multiplying technology is a proprietary method that compresses physical memory. This, combined with a unique technique to speed up virtual memory gives you maximum available Windows memory. So you don't need to fork out hundreds of dollars for expensive RAM chips.



Just point and click to optimize your PC.

QEMM's resource manager frees up Windows 3.1 User and GDI resources. So you can open more programs simultaneously without those dreaded 'Out Of Memory' messages.

QEMM's system memory management squeezes up to 634K out of the 640K, with patented Stealth technology that maps system ROM into other areas of memory. This doesn't just make your programs and games under the DOS prompt scream right off your screen, it gets Windows the memory it needs.

Manifest gives you a 'view under the hood' of your PC.

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Or does it so well. All this power comes to you in a package that's incredibly easy to set up, optimizes your PC automatically and lets power users fine-tune the settings.

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You couldn't do more for your computer than visit your local dealer today. For more information, go to www.quarterdeck.com or call 1-800-683-6696.

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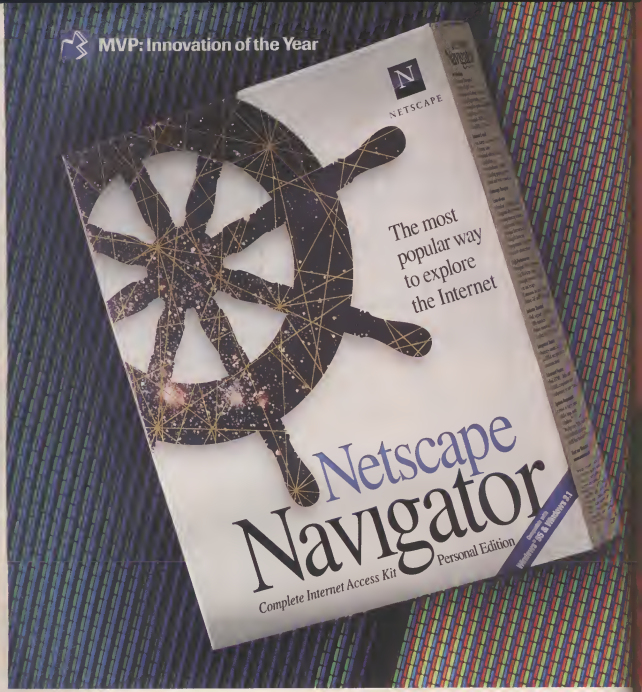

Netscape Navigator 1.2 Personal Edition

New product categories don't typically generate tremendous interest in their first year, but Web browsers are the exception. Riding the tidal wave of interest in the Internet, Netscape managed to claim a position on the required-software list of PC users everywhere with Navigator, its easy-to-use, feature-rich Web browser. Navigator's complete support of HTML 3.0 extensions and other cutting-edge technologies helped it quickly become the de facto standard on the Web. In fact, some sites practically require it. With version 1.2, the company added a greatly improved bookmarking system and native Windows 95 support. Netscape's commitment to more exciting developments in version 2.0 suggest the best is yet to come.

Navigator 1.2 Personal Edition / Netscape Communications Corp. / (800) 638-7483 / $39 / *Reader Service No. 772*

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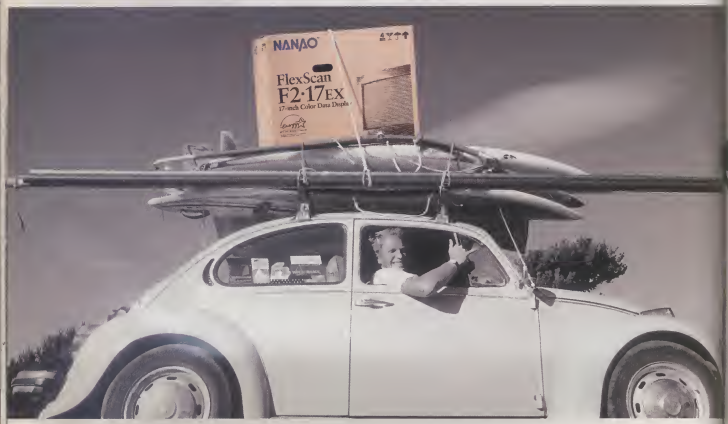

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On Screen Control	ScreenManager™ and ScreenManager™ Pro
Standards	MPR-II, TCO

T2·17TS

Aperture Grill	0.25mm
Actual Viewing Diag.	16.0"
Scan Freq.	H:30-86kHz, V:55-160Hz
Rec. Resol.	1280 x 1024 @ up to 82Hz
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Holiday Gift Guide

Ah, the holiday season is upon us again, with cheery thoughts of mistletoe, a cozy hearth, world peace . . . Stop! Wait! Hold on. What are we thinking? This is America, for crying out loud. We're talking gifts. Big ones. Lots of them. And what better presents for the ones you love (or need favors from later) than hot new PCs and cool gizmos to hook into them. So get out your checkbooks, credit cards, and First Virtual accounts. Our staff teamed up to suggest the perfect gift for every mobile user, Internet jockey, PC musician, virtual-reality aficionado, gamester, gadget hound, design buff, and hard-to-please CEO on your list.

PHOTOGRAPHY BY DAVID PERRY
Styling by Deborah Dapolito

"Shine 'em up, boy. I have a long list of heads to step on today." You're in charge. You call the shots. You control the purse strings. Do all the drones get Pentiums—or do you use the capital budget to give yourself 500-CD jukeboxes, monster storage towers, and flat-panel screens that cost more than a car? Duh. What do you think?

Where to Get It

ACS500 Surround Sound computer speaker system / Altec Lansing Technologies / (800) 648-6663 / $399 / *Reader Service No. 797*

Dimension XPS P6 server / Dell Computer Corp. / (800) 289-3355 / under $4,000 / *Reader Service No. 798*

Live PCS 50 videoconferencing system / PictureTel Corp. / (800) 716-6000 / $2,495 / *Reader Service No. 799*

NEC LCD1280 projection panel / NEC Technologies / (800) 632 4636 / $9,995 / *Reader Service No. 800*

Orray optical disk drive / Pinnacle Micro / (800) 553-7070 / $8,500 / *Reader Service No. 801*

Pioneer DRM-500AX jukebox / Pioneer New Media Technologies / (800) 444-6784 / $15,995 / *Reader Service No. 802*

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"*Brrrr*... I thought it said *Rome*, not *Nome*, Wendy. *G-g-g-get* me outta here!"

"Cold, schmold, Marty, you think it's easy here? I'm getting lotion all over the keyboard and the Mai Tais are dripping onto the screen." When holiday assignments are handed out, don't get left in the cold. No matter where they send you, take your whole office with you and always stay in touch.

Where to Get It

AirCommunicator cellular phone / Air Communications / (800) 247-3282 / $500 / *Reader Service No. 809*
Citizen PN60 printer / Citizen America Corp. / (800) 447-4683 / $365 / *Reader Service No. 810*
HiNote Ultra CT475 notebook / Digital Equipment Corp. / (800) 642-4532 / $4,999 / *Reader Service No. 811*
Organizer Brief leather carrying case / Coach / (800) 223-8647 / $488 / *Reader Service No. 812*
SoundWorks speaker system / Cambridge SoundWorks / (800) 367-4434 / $220 for speakers, $50 for bag / *Reader Service No. 813*
SpeedPaq 192 modem / Compaq Computer Corp. / (800) 345-1518 / $249 / *Reader Service No. 814*
ThinkPad 760CD notebook / IBM / (800) 426-2968 / $6,000 to $8,000 / *Reader Service No. 815*

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"The Web ate my brain. *Uhhh*... yeah, honey, be right there." Lost track of time again? Phone bill starting to outpace the rent? So far out on the I-Way you can't even remember the last off-ramp? What do you get for the guy who spends 17 hours a day in front of his screen? Stuff so cool he spends an even 20.

Where to Get It

Acoustimass Multimedia speaker system / Bose Corp. / (800) 444-2673 / $699 list price / *Reader Service No. 816*
Cyberjack 7.0 Internet software / Delrina Corp. / (800) 268-6082 / $90 / *Reader Service No. 817*
GyroPoint Desk pointing device / Gyration / (800) 316-5432 / $100 / *Reader Service No. 818*
InternetSuite Internet software / Quarterdeck Corp. / (310) 392-9851 / $30 / *Reader Service No. 819*
UltraSparc microprocessor / Sun Microsystems Computer / (800) 821-4643 / under $20,000 / *Reader Service No. 820*

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"Whoa, man—did the fuzz box just kick on, or was that a flashback?" Quick, up to the attic. Wipe away the cobwebs from that old Gibson Les Paul. Dust off the fringe jacket and tie on the headband. Then plug into the greatest backup band in the world—your PC. All we are saying, is give PCs a chance.

Where to Get It

Band-in-a-Box Pro 6.0 software / PG Music / (800) 268-6272 / $79 / *Reader Service No. 803*
FreeStyle software / Mark of the Unicorn / (800) 920-6688 / $200 / *Reader Service No. 804*
G-Vox software / Lyrrus / (215) 922-0880 / $299 / *Reader Service No. 805*
Kurzweil K2000S keyboard / Kurzweil Music Systems / (310) 926-3200 / $3,695 list pnce / *Reader Service No. 806*
QY22 sequencer/sound module / Yamaha / (800) 932-0001 / $595 list price / *Reader Service No. 807*
SCP-55 Sound Canvas PCMCIA Card / Roland / (800) 386-7575 / $549 / *Reader Service No. 808*

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System Requirements: A PC equipped with a 386, 486, Pentium or equivalent processor • Windows 3.1 or 3.11, Windows for Workgroups 3.1 or 3.11 • 4 MB RAM required

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Ice & Fire game / Zombie / (800) 610-4847 / $39 / *Reader Service No. 822*

Locus game / Zombie / (800) 610-4847 / $39 / *Reader Service No. 823*

VFX1 headgear / Forte Technologies / (716) 427-8595 / $995 / *Reader Service No. 824*

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Where to Get It

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Descent / Interplay Productions / (800) 969-4263 / $35 / *Reader Service No. 827*
MechWarrior 2 / Activision / (800) 477-3650 / $60 list price / *Reader Service No. 828*
NASCAR Racing / Papyrus Design Group / (800) 836-1829 / $55 / *Reader Service No. 829*
WingMan Extreme joystick / Logitech / (800) 231-7717 / $49 / *Reader Service No. 830*

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"Hack . . . gack . . . cough . . . wheeze . . . **Hey, buddy, check it out.** Forget Rolexes. I got just what you need. These things are hot!" This season you won't find a better stocking stuffer than computers for your pocket or your wrist. If these little PCs are sold out at your local emporium, get them anywhere you can.

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Archistrat 4s server / The Panda Project / (800) 994-4484 / $10,490 / *Reader Service No. 847*
Aspire Pentium 133 minitower / Acer America Corp. / (800) 733-2237 / $2,799 / *Reader Service No. 848*
SpaceController 3-D input device / Spacetec IMC Corp. / (800) 490-3200 / $595 / *Reader Service No. 849*

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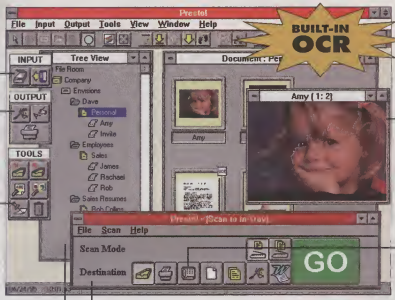

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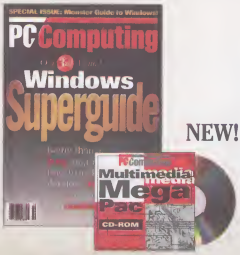

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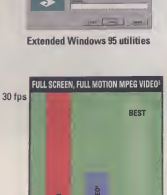

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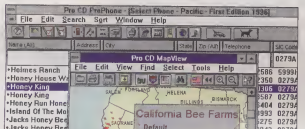
ATI TECHNOLOGIES INC.

Circle 158 on reader service card.

REFERENCE CD-ROM

Select **Phone** 1996

Ever wonder what happened to that old college pal? Or the roommate who disappeared and stiffed you with three months of phone bills? Well, if they're not in the witness protection program, Pro CD's Select Phone 1996 can find their phone numbers in seconds. Better yet, find out who lives in that house down the street with the junked cars in front. Or figure out the name behind that 3 a.m. wrong number. Need a list of all the bee farms in California? A few quick keystrokes and you have 'em.



On six CD-ROMs, Select Phone provides 80 million residence listings and 15 million business listings, all of which are instantly sortable and searchable. Select Phone includes lots of powerful features and a no-manuals-required interface. If you're at work you'll find Select Phone indispensable—both as a sales tool and as a means to maintain contacts. If you're at home and feeling nostalgic, you'll find it endless fun.

OK, it's not perfect, and juggling six CDs is no picnic, but with Select Phone you may never have to deal with cranky directory assistance operators again. Select Phone can uncover numbers in seconds, dial them for you, generate mailing lists, perform smart searches, hunt down exotic businesses, and even show you their locations on the included map. It works under DOS, Windows 3.x, Windows 95, and even on Macs. A real winner. PAUL SOMERSON

FILEBOX

Select Phone

Pros: Easy, flexible, comprehensive, powerful—and no annoying operator.

Cons: Too bad you have to juggle six CDs.

Verdict: The best thing to happen to your phone since the 800 number.

$99 est. street price
Pro CD
(800) 992-3766, (508) 750-0055
http://www.procd.com
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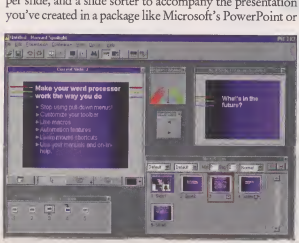
PRESENTATION GRAPHICS UTILITY

Harvard **Spotlight** 2.0

Sweaty palms, disorganized notes, no concept of time—these are clear signs that you'd benefit from Harvard Spotlight 2.0 for Windows. While Spotlight won't calm all those frayed nerves before you give the big presentation, it may make the task a bit less daunting.

Spotlight is a one-of-a-kind presentation utility that gives you display options, such as speaker's notes, time allotted per slide, and a slide sorter to accompany the presentation you've created in a package like Microsoft's PowerPoint or SPC's Harvard Graphics. You'll also find several useful features for practicing presentations.



The enhancements in version 2.0 are helpful but not breathtaking. Improvements include more options for presentation notes, like the ability to take notes during your presentation. The slide sorter is a welcome addition for making last-minute changes to your presentation, such as adding a slide with the latest sales figures.

While Spotlight was the picture of innovation when it shipped last year, stand-alone presentation graphics packages such as PowerPoint and Freelance Graphics have added a few similar features, cutting into some of Spotlight's advantages.

Nevertheless, if you frequently give electronic presentations and are hungry for some added control while you practice and present, Harvard Spotlight 2.0 offers more power and capabilities than you'll find elsewhere. KYLA K. CARLSON

FILEBOX

Harvard Spotlight 2.0 for Windows

Pros: Accepts files from major presentation graphics packages; easy to customize.

Cons: Requires two PCs or a dual-display PC Card.

Verdict: Ensures that your presentations go off without a hitch.

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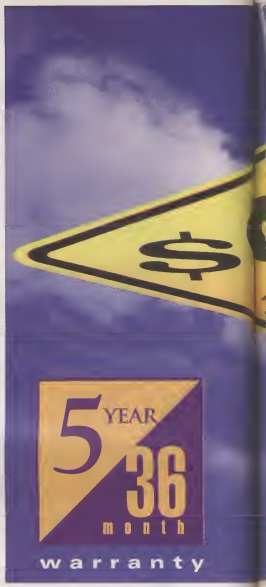

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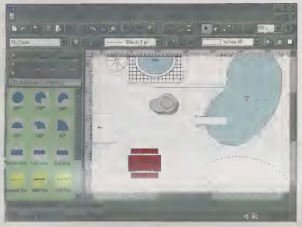
DRAWING SOFTWARE

Visio Technical 4.0

You've been asked to come up with a prototype drawing of your latest engineering masterpiece. But you're an engineer, not an artist. Relax—just look to Visio Technical 4.0, which includes all of the features of Visio 4.0, and then some. Best of all, it's designed to work with Windows 95, Windows 3.x, and Windows NT.

The secret to Visio Technical 4.0 is the same as in the previous version of Visio: drag and drop. Select one of more than 2,000 shapes from the program's stencils, then drag and drop it onto the page. Then connect it to other shapes. Before you know it you'll be creating high-impact technical drawings.



One new feature is a collection of wizards—templates that help you through some of the trickier types of drawings. Whether you need to create a quick sketch of a network layout or a thumbnail of a basic landscape, Visio Technical 4.0 has a template. One drawback: Changing templates can be tricky.

Want to edit drawings you created in other programs? Visio can convert flowcharts and diagrams created in Micrografx's ABC FlowCharter or Corel's CorelFlow. Even better, it offers full AutoCAD file compatibility so you can read and write imported AutoCAD drawings.

Need to do technical drawings? Get Visio Technical 4.0. Get the picture?

ADAM MEYERSON

FILEBOX

Visio Technical 4.0

Pros: Thousands of built-in technical shapes, and powerful new wizards.

Cons: Tough to change templates once you've made your selection.

Verdict: Anyone can draw with Visio 4.0 Technical.

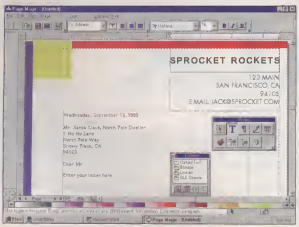
$299 est. street price
Visio Corp.
(800) 248-4746, (206) 521-4500
Reader Service No. 852

DESKTOP PUBLISHING SOFTWARE

Page Magic 2.0

The new version of NEBS Software & Services' Page Magic desktop publishing software starts out assuming you don't know your right hand from your left. Once you check all the "Don't Show This Window Again" boxes, you have a simple, automated page-layout tool with a bargain-basement price—and a few foibles.

Its templates and wizards are excellent for helping the design-impaired create documents such as newsletters, flyers, and business cards. Think Broderbund's Printshop, but with a business spin.



If you stick with the templates, creating fairly sophisticated stationery takes about two minutes. But if you try free-form mode, you have to work at it.

Among the minor quirks: The Undo command is unavailable for several actions. If you convert regular text into one of the included preset styles, you can't change it back with Undo. The importing filters are quirky, too. Import a Microsoft Word document that has the DOC extension, and Page Magic will think it's a WordPerfect file: Your import will be garbage. You need to save the original file in Rich Text Format.

Page Magic's saving grace is simplicity through templates. But if you're looking for a desktop publishing package that will let you design your own pages easily, we heartily suggest Microsoft's Publisher.

JACK LYON

FILEBOX

Page Magic 2.0

Pros: Using the templates and wizards, page creation is easy.

Cons: Quirks make custom page-layout difficult.

Verdict: For automated page layout and nothing else, it's a handy package.

$50 est. street price; $80 for Gold edition, which includes Design Magic and clip art
NEBS Software & Services
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GRAB YOURSELF

"I'm astounded... get one, you'll love it."
John Dvorak, PC Magazine

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GRAPHICS CD-ROM

Stock Photo Library 2

How many times has this happened to you: You've nearly finished a report or newsletter and you desperately need that perfect fungus photo. Or just the right picture of a guy in a Speedo. Or a Canadian farm. Or a piece of fabulous fruit.

No problem. Just browse through one of the 200 CDs in Corel's massive Stock Photo Library 2 collection, and choose from over 100 "stunning photographic images" (as Corel calls them)—ranging from tall ships to trains, from New York to New Guinea, from fireworks to sunsets to rainy nights, from kitchens to bathrooms to everyday objects, and from textures and patterns of all types to castles, caves, and creepy crawlers.

The package includes a tool for converting these royalty-free images from Kodak's standard Photo CD (PCD) format, and fiddling with image size, resolution, and color. Utilities also let you build custom photo catalogs, create Windows wallpaper and screen savers, and play audio CDs while you work.

The CDs are generally straightforward, but the 1.5-page user manual and somewhat rocky interface won't win any usability awards. Still, in terms of breadth and convenience, everyone who wants to spiff up their presentations should have Stock Photo Library 2.

PAUL SOMERSON

FILEBOX

Stock Photo Library 2

Pros: Places 20,000 high-resolution color images at your fingertips.

Cons: Interface and user manual could be better, PCD format has its quirks.

Verdict: The absolute best excuse to buy a CD jukebox.

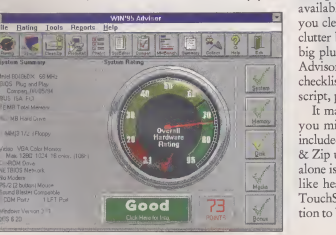
$700 est. street price
Corel Corp.
(800) 772-6735, (613) 728-3733
Reader Service No. 854

WINDOWS 95 UTILITY

Win'95 Advisor

If your system is more than a year old, chances are you'll need to do some heavy-duty hardware upgrading before Windows 95 will run the way it should. TouchStone's Win'95 Advisor takes some of the pain out of the process by offering advice on what to upgrade and what to expect during the upgrade process.

Win'95 Advisor integrates into your machine right down to the BIOS, where it rates how successfully your system will tolerate a Windows 95 upgrade. Then it searches for applications and hardware that are known to cause problems with the new operating system, makes sure you have enough hard drive space available, and even helps you clean up some system clutter before you take the big plunge. Next, Win'95 Advisor provides a detailed checklist and an autoinstall script, protecting you against surprises down the road.



It may sound silly to spend money on a product that you might use only once, but have we mentioned the included multimedia benchmark software and 32-bit Clean & Zip utility for Windows? A good Windows zip utility alone is worth the price of admission. While you may not like hearing that you need to upgrade your hardware, TouchStone's Win'95 Advisor ensures a smooth transition to Windows 95.

SCOTT NAYLOR

FILEBOX

Win'95 Advisor

Pros: Includes additional 32-bit utilities.

Cons: If you have a brand-new system, the Advisor's benefits are minimal.

Verdict: For questions about upgrading to Windows 95, just ask Win'95 Advisor.

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TouchStone Software Corp.
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Windows NT 32 bit mode included	Yes	No	No	No
Microsoft MS Backup compatibility included	Yes	No	No	No
Kodak PhotoCD creation software included	Yes	No	No	No
Audio Editing utility included	Yes	No	No	Yes
Disc at Once recording software included	Yes	No	No	Yes
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Source: pricing and information obtained directly from manufacturers 10/1/95

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on PAGEMAKER 6.0.

k on a Sunday afternoon and you're finally crossing the last item off
nd's "to-do" list. Time to get physical, but the gym or a swim won't
et outside for a walk—not a stroll around the block, or a neon and
power push. It's time for rugged walking.

lk tough

servant trend-watcher knows that outdoor activity is booming.
e boomingest activities is the pedestrian style. But what's only
g noticed is that a majority of the millions of Americans now
ctive outdoor lifestyles aren't "doing" anything out there. They're
they're getting fit and enjoying the great outdoors.
in the fitness boom and the outdoor recreation craze,
slipped the notice of most media," says Robert Hoffman, a
s on trail and river protection projects.
eople don't want to climb Kilamanjaro or strap walking
but they want to be outdoors after spending the bette
nk stuck in an office or other indoor setting," says Hoffman.
rugged walk in the outdoors
in a way that counting
steps on a treadmill
> What's more, rugged walking, by
of competition that typifies
forms of outdoor activity. For instance,
and mountain bicycling
two of the hottest recent
into the outdoor arena, are
bigger challen
ride. No knock against these adventure sports, but for them it's
that drives the activity. For the rugged walker, the
in the same. Challenging terrain is embraced and enjoyed.
equipment.
rugged walking, and what's making it so popular? Two words

Mike Salisbury uses Adobe™ PageMaker™ to create designs so powerful they've become part of our collective consciousness. Layouts for Rolling Stone magazine, posters for Jurassic Park and Aliens, and Michael Jackson album covers bear his imprint. Now there's a radically new Adobe PageMaker 6.0 upgrade. "The interface is so natural, it never interferes with my ideas", says Salisbury, "and this new version is really over the top. I'm getting dead-on color from start to finish because it's locked into Kodak's Precision Color Management System." Hot new features include multiple master pages to streamline the creation of different page designs in a single publication; grouping and ungrouping to combine elements into a single movable, editable unit; integrated automatic trapping for color publications; and full compatibility with Adobe Acrobat™ and HTML so any document can be sent anywhere electronically. Adobe PageMaker 6.0 is here, so even if you're not creating professional design, this is the tool to give you professional looking results. Call 1-800-521-1976, Ext. L6872 for more information or visit our web site at http://www.adobe.com/.

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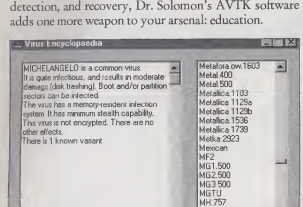
SYSTEM UTILITY

Anti-Virus Toolkit

Health organizations preach that the best defense against epidemics is education. It's the same with software, and S&S Software International's Dr. Solomon's Anti-Virus Toolkit (AVTK) is a particularly good example. While most antivirus programs provide the traditional three-pronged defense of prevention, detection, and recovery, Dr. Solomon's AVTK software adds one more weapon to your arsenal: education.



Dr. Solomon's AVTK detects and removes viruses, and repairs damaged boot sectors. Included is a virtual device driver called WinGuard that constantly protects your system against infection. The package also comes with the *Virus Encyclopedia*, both in book form and online. It lists viruses alphabetically by name and explains how they affect systems and how you can eliminate them—enough info to turn you into an instant virus geek. The educational focus sets AVTK apart from Symantec's Norton Antivirus and McAfee's VirusScan.

With your purchase of Dr. Solomon's AVTK, you can arrange to receive free updates for one year—a comforting fact when you consider that 200 new viruses break out every month. And Dr. Solomon's AVTK has the platform bases covered, offering versions for Windows 95, Windows 3.x, DOS, OS/2, and NetWare. **S. JAE YANG**

FILEBOX

Dr. Solomon's Anti-Virus Toolkit for Windows 95

Pros: Provides powerful weapons and the knowledge you need to beat viruses.

Cons: Customization process could be easier.

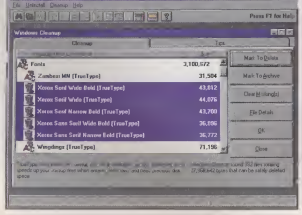
Verdict: A comprehensive, effective antivirus tool set.

$125 est. street price
S&S Software Int'l
(800) 701-9648, (617) 273-7400
Reader Service No. 856

SYSTEM UTILITY

UnInstaller 3 for Networks

Remember when your office first got UnInstaller and everyone went into a frenzy of newfound power, deleting all the INI files they could find? It freed up megabytes, but still left some of those unneeded files on networked machines. The original network version of UnInstaller (version 2.0) did away with network remnant files, and provided a simple way for the information systems person to maintain necessary files on each machine.



UnInstaller 3 for Networks takes space-saving one step further by offering archiving features. Pick the apps and related files you don't use often and compress them. When you need them again, just double-click on their icons or filenames to expand them. Other improved features include a duplicate file finder, enhanced file viewers, and the capability to move applications and related files from one drive to another.

The biggest benefit is value. You still need to install the utility on every PC, and you can only uninstall files directly from each PC, rather than remotely. But you can legally install one copy on all the systems on the network in your office.

The network version of UnInstaller 3 really delivers only a few major advantages that the stand-alone version of UnInstaller 3 doesn't have. The biggest plus is money saved if you have several networked computers. **JACK LYON**

FILEBOX

UnInstaller 3 for Networks

Pros: Compression and archiving let you squeeze the most from your hard drive.

Cons: Most features can't be used remotely.

Verdict: An economical way to reclaim megabytes on all network systems.

$189 est. street price
MicroHelp
(800) 922-3383, (770) 516-0899
Reader Service No. 857

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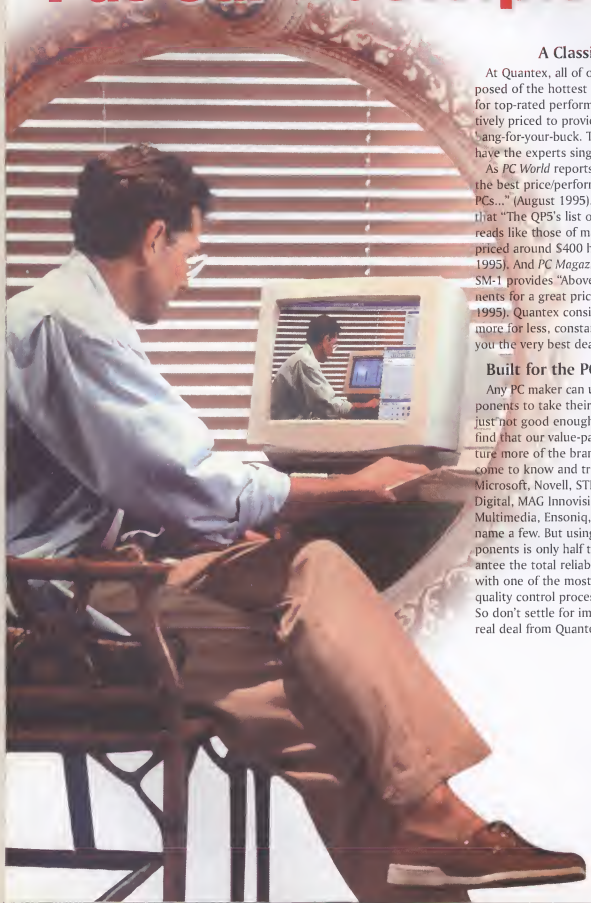
Designed for Microsoft® Windows® 95

Put Our Masterpieces



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pentium® PROCESSOR

To Work For You

Designed for Microsoft® Windows® 95

Start

All Quantex systems are not only equipped with Windows® 95 – they're *Designed for Windows 95*. As one of few companies to have passed strict Microsoft® Hardware Compatibility Testing, all of our systems are Plug and Play compliant to make adding new components a snap! For superior performance, check out these advanced components on our QP5/SM-2:

Performance-Enhanced Memory

Get extreme – our QP5/SM-2 features 16MB EDO RAM. The 16MB guarantees optimum software operation, while EDO boosts memory access speeds an additional 33%! Plus, we give you a 256KB L2 Pipelined Burst Cache for extra rendering power. Working together, EDO and the Pipelined Burst Cache cuts the processing time of memory operations, maximizing your system's execution rates to accomplish tasks faster.

Breakthrough Graphics and Media Acceleration

Enter the world of STB PowerGraph 64 Video Acceleration, the experts' choice for complete MPEG playback with full screen and full motion video. This high-performance 64-bit video graphics accelerator with 2MB EDO DRAM is based on the S3 TRIO64 V+ Chipset. That translates into no-holds-barred power, supporting up to 30 frames per second, resolutions up to 1280x1024, plus precise true color for photo-realistic imaging.

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An immense 2GB Mode 4 Hard Drive offers the capacity and performance you need to fully optimize Windows 95. In fact, it's the flat-out highest capacity ATA-2 Interface drive to date. Plus, its speedy 16.6 MB/sec data transfer rates, 5400 RPM, 256KB multisegmented cache buffer, and 10ms seek times deliver huge masses of data in a flash.

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Above System features QP5/SM2

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- Complete Reference Library (over 10 titles)
- Al Unser Arcade Racing
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- Quicken Financial Manager-SE
- Astound (#1 in Multimedia Presentations)
- Phone Disc Business '95
- Al Unser Arcade Racing
- USS Ticonderoga
- America Online, Prodigy, CompuServe (one month trial membership to on-line services)
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Designed for Microsoft Windows 95

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- Family Software Bundle (preinstalled)

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QP5/120 M-3.....$2249

QP5/120 M-4 $2349

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- 17" .26dp MAG 1280x1024 Monitor
- 28,800 Baud V.34 Fax/Modem
- Aztech 6X EIDE CD-ROM Drive
- Ensoniq 16-Bit Wavetable Sound Card
- Altec Lansing ACS-31 Speakers w/ subwoofer
- Newly Designed Mid-Tower Case
- 104-Key keyboard & Microsoft Mouse
- Microsoft Windows95
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  (6 ppm, 600 dpi class print quality)
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QUANTEX

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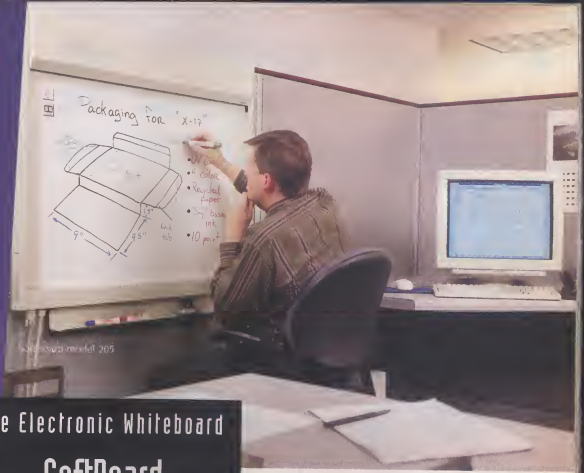
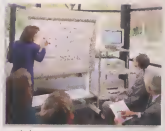


The Electronic Whiteboard

SoftBoard

For Windows 95

Imagine the project where you all have the same vision, the same objectives, and the same notes.



Mobile SoftBoard model 203

SoftBoard model 201 using SBRemote conferencing software

SoftBoard only *looks and feels* like an ordinary whiteboard. Whatever you create on a SoftBoard appears instantly on your Windows™-based PC. Once it's there, you can save it, print it, cut and paste it, e-mail it, fax it, even network it to multiple sites. Use SoftBoard in collaborative discussions and brain-storming sessions. You can share information, create new ideas and keep records without tedious transcribing.

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MICROFIELD

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Beaverton, OR 97005
503-626-9393, Fax 503-641-9333

FINALIST

Product of the Week

Tele conference

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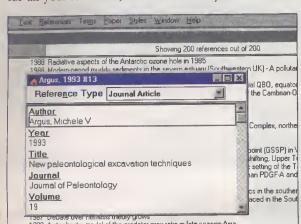
Circle 328 on reader service card.

WORD PROCESSOR ADD-IN

EndNote Plus 2

After spending an inordinate amount of time writing an article or report, who wants to face the daunting task of creating the bibliography? With EndNote Plus 2 from Niles & Associates, it's not a problem. EndNote organizes references and builds bibliographies right in your word processor in little time with minimal effort.

With EndNote Plus 2, you can create detailed libraries for all your references, insert them into your document, and then create a professionally formatted bibliography with a few mouse clicks. The program works with most major word processors, and we had no problems using it with the Windows 95 version of Microsoft's Word.



Creating and organizing references is quite simple. EndNote prompts you to fill in the blanks, then generates the bibliography automatically. Inserting the bibliography into a document is a cut-and-paste operation.

When you create the bibliography, you don't need to guess at the correct format. EndNote Plus 2 includes a collection of more than 200 predefined styles (called Reference Types) for specific journal requirements. Choose the Reference Type, click the mouse, and EndNote Plus 2 creates the bibliography.

So the next time you need to prepare a bibliography, don't sweat it—use EndNote Plus 2. LYDIA M. KARLOWICZ

FILEBOX

EndNote Plus 2

Pros: Works with most popular Windows word processors.

Cons: A pricey solution if you don't create bibliographies frequently.

Verdict: Takes the headache out of creating detailed bibliographies.

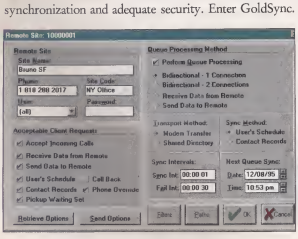
$170 est. street price
Niles & Associates
(800) 554-3049, (510) 559-6592
Reader Service No. 858

CONTACT-MANAGER ADD-IN

GoldSync

You're on a business trip. You need up-to-the-second contact information. But the network's back at the office. If you don't synchronize your databases, you and your colleagues are using old data. You're duplicating records and missing key facts that could seal the deal.

Smart businesses invested in Elan Software's GoldMine because it offered some of the best contact-management features for networks on the market. But it lacked multiuser synchronization and adequate security. Enter GoldSync.



It's a GoldMine add-in—a communications gateway that's as complete as a remote-synchronization product can be.

GoldMine lets a single user synchronize a database with a server, but GoldSync lets multiple users sync their databases to a server, and it lets one server sync with multiple servers via phone lines or a wide-area network. In addition, GoldSync tracks who has synchronized and when they last updated. Administrators can establish selective filters, so users update only the data they need. Most important, once these settings are established, users don't need to reset all the properties; GoldSync works thereafter without user intervention, essentially soliciting or waiting for remote-system contact.

While some competitors have embedded synchronization modules in their main products, none matches the level of detail of Elan's GoldSync. JAMES OLIVER CURY

FILEBOX

GoldSync

Pros: Multiple users can synchronize to a server—with selective filters and complete security.

Cons: A bit expensive.

Verdict: A must-have synchronization add-in for GoldMine.

$420 est. street price per server with up to three nodes
Elan Software Corp.
(800) 654-3526, (310) 454-6800
Reader Service No. 859

The ONLY Street Atlas that lets you import names and addresses from ANY source!

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Introducing Select Street Atlas, the amazing new Street Atlas on CD ROM. This is the first ever mapping product that gives you the ability to import – *and display* – any listings from any source. No other street atlas lets you do this. Now you can plot any list of names & addresses from any file, right down to the street level. Display where your customers are clustered. Identify which houses are for sale in your town. And of course, locate your cousin's ranch in Montana. Select Street lets you do all this with a click.

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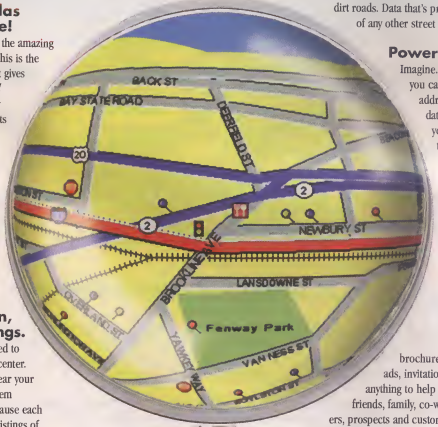

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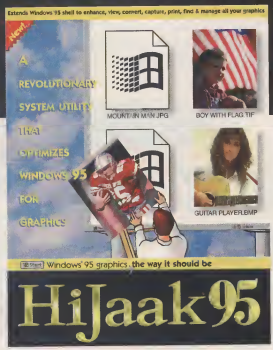

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QUARTERDECK

CLEANSWEEP 95 FOR WINDOWS 95 WILL UNINSTALL ALL YOUR OBSOLETE PROGRAMS. (LIKE, OH FOR INSTANCE, UNINSTALLER.)

Sorry Uninstaller, but the new Quarterdeck CleanSweep 95 just swept you under the carpet. While you may be excellent at uninstalling those bitty 16-bit programs, that skill won't get you very far in Windows 95.

Windows 95 is big, with big 32-bit programs. CleanSweep 95 is smart and powerful, with native 32-bit power to remove any program in the Windows 95 world – both 16- and 32-bit.

And it does it much faster than other (uh-hmmm) uninstallers, so you don't have to twiddle your thumbs for hours every time you uninstall something, archive it or go searching for leftover bits of unwanted files.

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To see for yourself everything CleanSweep 95 can do, call 1-800-683-6696 for your free trial edition. Or you can download a copy from our Web site at www.quarterdeck.com.

Even better, pick up the real thing. You may also qualify for a specially priced competitive upgrade from any participating retailer.* Or you can order by phone: 1-800-683-6696.

HURRY! UPGRADE OFFER ENDS DECEMBER 15, 1995.

*Special upgrade offer applies to registered users of Microhelp Uninstaller, Vertisoft Remove-it, Landmark Uninstall-it, IMSI Winstaller, and, of course, Quarterdeck CleanSweep. Dealer prices may vary.

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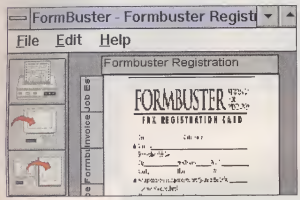
FORMS SOFTWARE

Formbuster 2.1

Ask people what the most tedious part of their job is, and the answer will probably be the same around the world: filling out forms. Forms take too much time, and are responsible for too much paper pileup around most offices. But it doesn't have to be that way. Virtual Reality Laboratories' Formbuster 2.1 for Windows could be just what your office needs.

The paperless office may not be as far away as you think. Formbuster lets you take your existing paper forms and input them into your PC with a scanner or fax machine. This is easier said than done, mind you. But Formbuster converts your forms into graphical images that you can manipulate to fit your personal tastes or corporate needs. You can also add custom images such as graphics or your company logo.



In addition, Formbuster's print driver lets you transfer electronic forms directly from other Windows 3.*x* applications onto the Formbuster desktop. Once the form is there, you can place dynamic tabs on it in order to move it to any location, which is perfect for quick data entry.

Keep in mind this is not forms-generation software or groupware. But Formbuster 2.1 for Windows is the perfect addition to any office looking for an easy way to automate forms processing, or to save trees.

MARK DOSSEE

FILEBOX

Formbuster 2.1 for Windows

Pros: Great for converting paper forms into electronic forms.

Cons: Windows 95 version is still in the works.

Verdict: An easy solution to paper-forms overload.

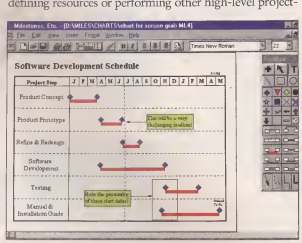
$40 est. street price; $60 for CD with library of ready-to-use forms
Virtual Reality Laboratories
(800) 829-8754, (905) 781-2250
Reader Service No. 860

PROJECT SCHEDULING SOFTWARE

Milestones, Etc. 4.5

Unless managing projects is your business, you probably don't require full-featured project-management software. But if you need schedules to communicate with others, such as your boss or a customer, consider a scheduling package such as Kidasa's Milestones, Etc. 4.5.

With Milestones, Etc., you can set up your schedule and share it effectively with others without worrying about defining resources or performing other high-level project-management tasks. Once you've established your basic schedule, you can use Milestones, Etc. to transform your chart into a powerful presentation graphic.



Milestones, Etc. gives you a wide variety of connectors and symbol shapes to choose from. And you can customize your schedule in seconds by adding a corporate logo, or by changing the time-line headings to match your own project schedule. You can even place text anywhere on the schedule.

But unless you're familiar with earlier versions of Milestones, Etc., you may have a tough time getting started. The program would benefit greatly from wizards or similar tools found in products like Microsoft's Project. Even so, Milestones' flexibility makes it worth considering as a scheduling package, even for people who don't have projects to manage.

GEORGE HACKMAN, JR.

FILEBOX

Milestones, Etc. 4.5

Pros: A flexible scheduler for powerful presentations.

Cons: It may take a while to learn—better keep the manual handy.

Verdict: Scheduling minus the overhead of most full-featured project managers.

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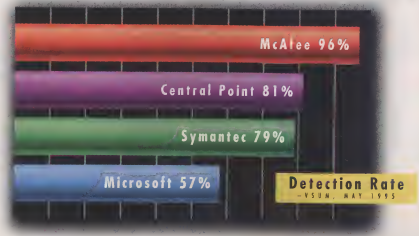
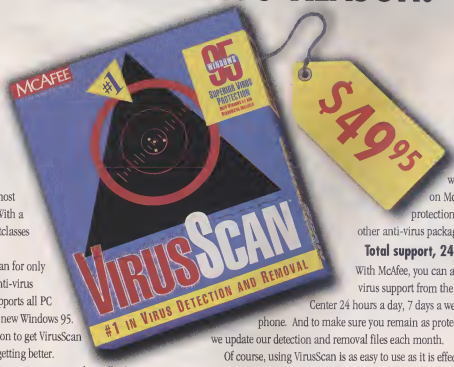


THE NUMBER TWO REASON.



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Perhaps that's why so many prepress service bureaus accept QuarkXPress files exclusively, frowning upon anything else.

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Typographic control in QuarkXPress is unmatched. QuarkXPress can adjust the spaces between words and letters to within 1/2000 of an em space. You have the same precision when dealing with line spacing (leading), paragraph spacing, hyphenation, justification, indents, hanging indents, and special line breaks.

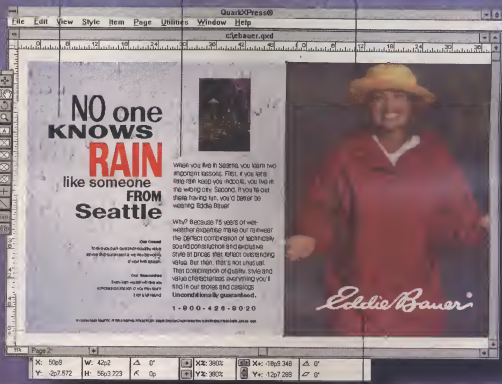
Horizontal and vertical scaling can be applied to any font. The word "KNOWS" has been set in the same font as the word "RAIN." However, "KNOWS" has been horizontally stretched to 135% of its original length, and "RAIN" has been compressed to 60% of its original length.

Pictures can be easily manipulated in QuarkXPress. The raincoat TIFF shown here was scaled to 380% of its original size by quickly typing horizontal and vertical values in a palette. The same level of control exists for contrast, color, rotation, skew, and flipping (mirroring) of images.

Check out those awards. Because of its ease of use, extensive feature set, and professional reliability, QuarkXPress for Windows earned *PC Computing*'s MVP award in 1994, *PC Magazine*'s Editor's Choice award in 1993 and '94, and *Home Office Computing*'s Editor's Pick for Windows 3.31 award in 1995.

Home Office Computing

MVP PC COMPUTING



Third-party developers can create add-on software modules that seamlessly integrate into Quark XPress to add entirely new features and tools to the application. Users can run several of these **XTensions** simultaneously — currently over 200 to choose from on the Windows platform.

The output capabilities of QuarkXPress for Windows are unmatched by any other page layout application. Use sophisticated trapping controls to hide the misregistration problems that occur on press. Automatically gather files and compile a list of every ingredient necessary for output with a single command.

Overlapping graphics effects are a snap. Eddie Bauer's logo illustration was placed in a picture box with an invisible background, allowing the background photo to show through the holes in the logo. QuarkXPress also supports clipping paths for more complex overlap requirements.

QUARK

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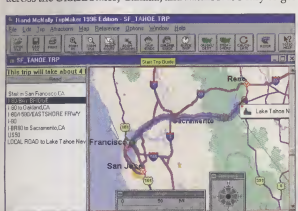
TRAVEL PLANNER

TripMaker 1996 Edition

Full tank? Check. Ice chest? Check. Tunes? Check. Half the fun of road-tripping is in the anticipation and preparation that comes before you hit the highway. Now there's another item to add to your checklist: Rand McNally's TripMaker 1996 Edition.

TripMaker 1996 is a comprehensive multimedia tour guide and travel planner that covers more than 640,000 miles of road, 125,000 cities and towns, and 20,000 attractions across the United States, Canada, and Mexico. It's easy to get started with TripMaker's Guides, which include audio instructions, step-by-step trip planning, and suggestions for destinations based on region, season, and time constraints. And if you already know where you want to go, you can chart a course in minutes with QuickTrip.



As a road-map resource, TripMaker is complete and accurate. But TripMaker is more than just maps. If you're looking for a new vacation spot with fun stopovers along the way, more than a dozen Attraction Packs point you toward hotels, restaurants, golf, skiing, fun for the kids, and even gambling. You'll also find video clips and Lookouts—panoramic photographs with clickable points of interest for the largest U.S. cities.

Keep your AAA membership for emergency roadside service and up-to-date traffic maps, but turn to TripMaker 1996 Edition to plan your next road trip. **RICH SCHWERIN**

FILEBOX

TripMaker 1996 Edition

Pros: Detailed maps, color video, and scenic photos make it easy to chart courses.

Cons: TripMaker can't anticipate local traffic patterns or construction.

Verdict: Don't plan a road trip without it.

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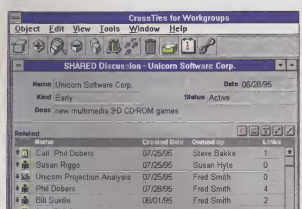
PERSONAL INFORMATION MANAGER

CrossTies for Workgroups

Do you ever feel like your life is completely out of control? Are meetings, e-mails, faxes, documents, employees, and clients more than you can handle? If so, CrossTies for Workgroups can help you work through the chaos, although you'll have to get used to working with your life in terms of "objects."

In CrossTies, everything is an object: faxes, e-mail, contacts, files, and activities, for example. Have a proposal for a prospective client? Just link the proposal and client objects together. Want to see the e-mail you've sent and received from an employee? By linking objects, all the vital information is at your fingertips. All your projects, documents, and contacts are together in one central in-box, from which you can launch all of your applications.



CrossTies comes packed with features that make it more than a personal information manager. These include customizable electronic forms for tasks like product management, plus a discussion database to sound out ideas, and powerful Boolean searching.

You can share leads, ideas, and files. You can coordinate schedules with local and remote users over a network via e-mail and a shared network directory. And if you don't need the workgroup features, you can purchase a personal edition of CrossTies for just $99. **LIESL LA GRANGE NOBLE**

FILEBOX

CrossTies for Workgroups

Pros: All of your activities, documents, and contacts are just a link away.

Cons: Not the most intuitive product to learn.

Verdict: A first-rate information manager for the entire workgroup.

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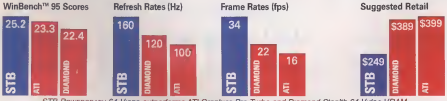

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*Requires the installation of Windows 95 and an established account with Microsoft® Network.

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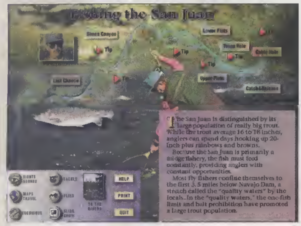
ENTERTAINMENT CD-ROM

Great Rivers of the West

So you say you like fly-fishing? Well, let's see, do you have fish wallpaper? Do you hear the scream of a reel every time you press the delete key? Was *fly-fishing* the first thing you searched for when you finally got on the Web? Yeah? Then you need Fly Fishing: Great Rivers of the West. It's your own guide and gillie to the six major destination rivers of the western United States.

This CD-ROM ain't no stink-bait, bubba-in-the-back-seat road trip. Fly Fishing draws a bead directly on the 40-something urban yuppie pining to jump in the Land Rover and head for the high country.



With stunning photography, very cool icons, and informative sound and video clips, Fly Fishing is both elegant and logical. Select a river, and the screen opens to a bucolic scene accompanied by the babble of a stream and the chirping of birds at dawn. Too sedate? How about brawling rapids or plunging falls? It's your choice. You can check out maps, see video clips of local guides giving tips, and even learn about the local ecology as well as lodging and restaurants. My one complaint: Fly Fishing's brevity. It's the Cliffs Notes to fly-fishing. This is definitely not the last word on six rivers but a brief, beautiful, and fun way to gather information before you pack up your tackle. MICHAEL YAPP

FILEBOX

Fly Fishing: Great Rivers of the West

Pros: Gorgeous, intelligent interface; first-class design.

Cons: Could use more in-depth information.

Verdict: If it were a fish, this CD would be a keeper.

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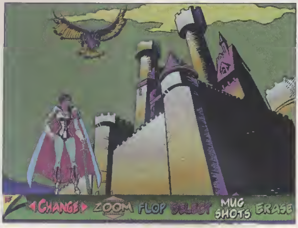
ENTERTAINMENT CD-ROM

Comic Creator

Have you always dreamed of creating comics? An artist is a master of the line, the cross, and the curve. But there's one catch: You've never been to art school and you can't draw a straight line. If that's the case, all is not lost. Let Hearst New Media & Technology's Comic Creator do the drawing for you. Armed with a little imagination and an idea for the great story you've always wanted to tell, you can use Comic Creator to produce comic epics that will give Spiderman a run for his money.



Comic Creator presents you with a series of backgrounds, props, and characters—both heroes and villains—to stock your panels. It even provides the text bubbles for captions, thoughts, and dialogue. If your imagination is running on empty and you're stuck for an idea, just roll the Idea Dice: Comic Creator will randomly offer a plot to use in your story.

Comic Creator is an excellent creative tool for children and wanna-be artists. You can even use Comic Creator to enhance your informal and external corporate communications by using it to dress up your stationery and other documents. Picture the possibilities: You can import a bit-mapped image and have Captain America hurtle over the top of your corporate logo, or make Wonder Woman fly across your business card. BENJAMIN F. MILLER

FILEBOX

Comic Creator

Pros: It's fun and easy to use—you'll feel like a pro in minutes.

Cons: The images aren't editable.

Verdict: Hours of entertainment for comic-book lovers.

$35 est. street price
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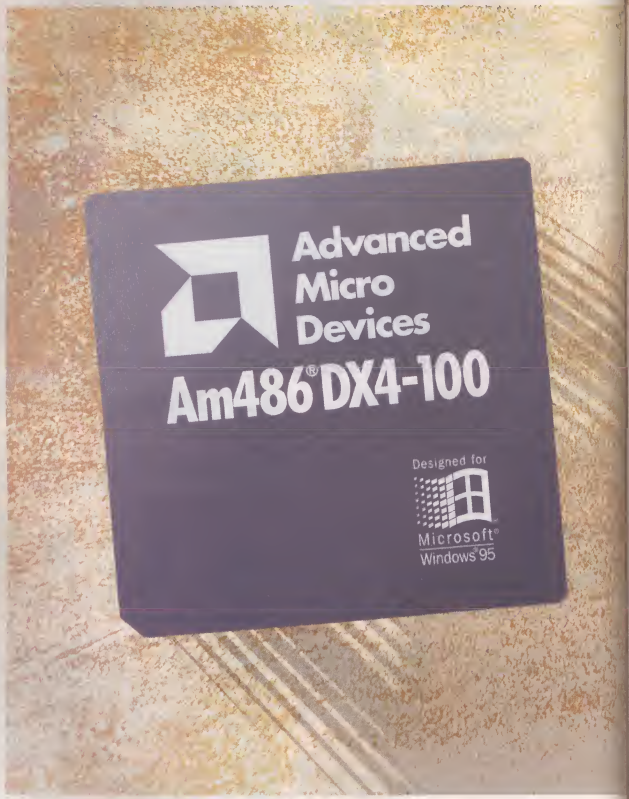
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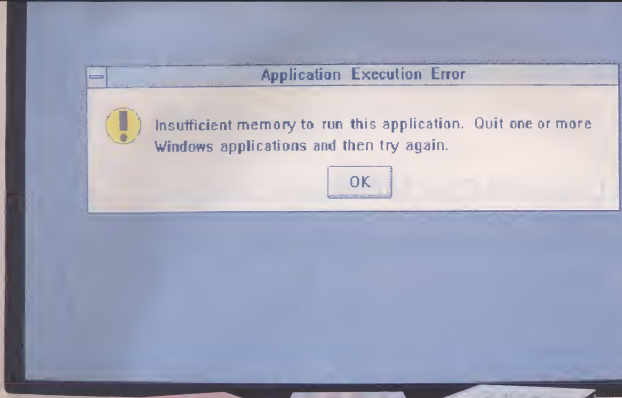

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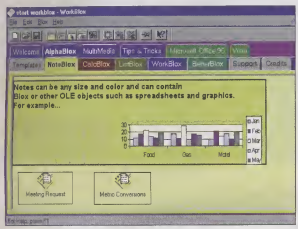
WINDOWS 95 UTILITIES

OfficeBlox for Windows 95

You can use simple cut and paste to move information between Windows applications, or you can get smart and check out Alpha Software's OfficeBlox for Windows 95, a novel collection of utilities. OfficeBlox lets you insert a variety of functional OLE objects into any OLE-aware Windows 95 application, such as Microsoft's Word or CorelDraw. Once you have objects in your application, you can edit and copy the objects. Even better, you can place objects as scraps right on the Windows 95 desktop. The program also creates a toolbar on the Windows 95 desktop or in the margins of a running application, letting you cut and paste data into any document.



OfficeBlox includes five components: ToolBlox, the toolbar where Blox modules reside; ListBlox, an easy-to-use, intelligent database; NoteBlox, a set of electronic sticky notes; CalcBlox, an ultracapable calculator; and WorkBlox, a feature that lets you create multiple workbooks and organize critical files by drive, project, date, or any category you choose. Over time, Alpha plans to add additional Blox modules with more features.

If the future of software is in small, task-specific applications that work on top of your operating system, OfficeBlox is ahead of its time.

BENJAMIN F. MILLER

FILEBOX

OfficeBlox for Windows 95

Pros: A clever tool for adding productive features to Windows 95 apps.

Cons: OfficeBlox works under Windows 95 only.

Verdict: An essential and smart utility for Windows 95 users.

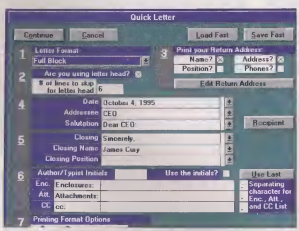
$70 est. street price
Alpha Software Corp.
(800) 399-7440 ext. 118
Reader Service No. 866

PERSONAL INFORMATION MANAGER

Info Accelerator 3.0

Are you feeling all comfy and productive in that word processor you call home? Unwilling to leave it—even for a second? You don't have to. If you want a personal information manager (PIM) that works from within Microsoft's Word or Novell's WordPerfect, consider Baseline Data Systems' Info Accelerator 3.0.

Info Accelerator embeds itself in your word processor as a top-level menu option. Within Word, for example, you simply click on the Info Accelerator menu and choose Phone Book, Calendar, or one of the Quick templates available for creating a letter, label, envelope, or fax. In a nutshell, you can bring your contact information into your current project.



So what's the catch? The interface. Useful as it may be, you can't escape its ugliness; the dialog boxes and main screens bombard you with a cluttered mess of buttons and text boxes. The Calendar requires quirky specialized left- and right-mouse-button clicks and nonintuitive appointment rescheduling.

On the positive side, Info Accelerator is the only PIM that integrates into your current word processor. A new version, due in the first quarter of 1996, will support Novell's GroupWise and have a new interface. Watch for a Windows 95 version to hit the shelves next summer.

JAMES OLIVER CURY

FILEBOX

Info Accelerator

Pros: Seamless integration with any Windows 3.*x* word processor.

Cons: Cluttered and unattractive interface.

Verdict: Great for integrating your word processor with contact data, but limited to that function.

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Stanford Diehl, **BYTE Magazine**, October 1995

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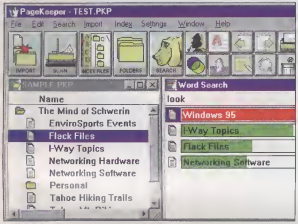
OCR SOFTWARE

PageKeeper 2.1

Are you one of those people who clip and save articles from magazines, journals, newspapers, newsletters—what not? Inevitably, piles of clippings are strewn all over your desk and overflowing from your in-box. But that was life before Caere's PageKeeper 2.1 for Workgroups.

With any scanner (we used Delrina's WinFax for this review), PageKeeper's OCR power solves your clippings problem, letting you scan everything directly into its database.



PageKeeper is much more than OCR software; it tracks all your electronic information—Word and Excel files, faxes, plus scanned clippings. And PageKeeper's Natural Language Processing technology automatically indexes everything. Version 2.1 includes Vendor Independent Messaging (VIM) and messaging applications programming interface (MAPI) compliance, so you can track e-mail in your database.

For example, if you're looking for an article about Cleveland's Rock and Roll Hall of Fame, you have several search options at your fingertips: a simple word search, an AND/OR Boolean search, and a similar-document search. PageKeeper returns a list of possible suspects ranked in order of relevance.

The bottom line? Garbage in, gold out. The downside? You need a huge hard drive to store files, and it doesn't do voice mail—yet.

RICH SCHWERIN

FILEBOX

PageKeeper 2.1 for Workgroups

Pros: The smartest electronic shoebox.

Cons: It's a hard-disk hog, and there's no voice-mail support.

Verdict: The answer for organizing all of your electronic information.

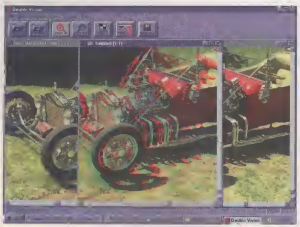
$379 est. street price
Caere Corp.
(800) 535-7226, (408) 395-7000
Reader Service No. 868

3-D GRAPHICS CD-ROM

Double Vision

What do you get when you pull some special effects from a '50s horror movie and slap them on a CD? Visual Software's Double Vision: a one-trick pony that takes any image and skews its blue and red into a 3-D image that you view with the included glasses.

The process is simple: Import two images—one for the left eye and one for the right eye. Hit the Make 3D command and you're set. Once you've viewed the image with the 3-D glasses, you can tweak the images slightly to enhance the 3-D effect if you don't like what you see.



Making 3-D images with the stock photo files that ship with Double Vision is simple. Creating images from your own photos is a bit more difficult: To get the best effect, you need to take two pictures of the same object, one from the viewpoint of the left eye, and one from the right eye. Sounds tricky, but the manual provides plenty of tips on how to maximize the 3-D effect.

Double Vision is an entertaining product that does one simple thing. You'll be hard-pressed to find many uses for 3-D art that requires special glasses, but it's inexpensive and fun enough to try out. And because 3-D art is best enjoyed by a large group of people, you can buy extra glasses from Visual Software. For just $5, ten of your friends can don 3-D specs to examine your 3-D images.

JACK LYON

FILEBOX

Double Vision

Pros: Inexpensive, amusing, and it works.

Cons: Tricky to convert original photos to 3-D format, limited uses.

Verdict: Entertaining 3-D creations, but once the novelty wears off, you're not left with much.

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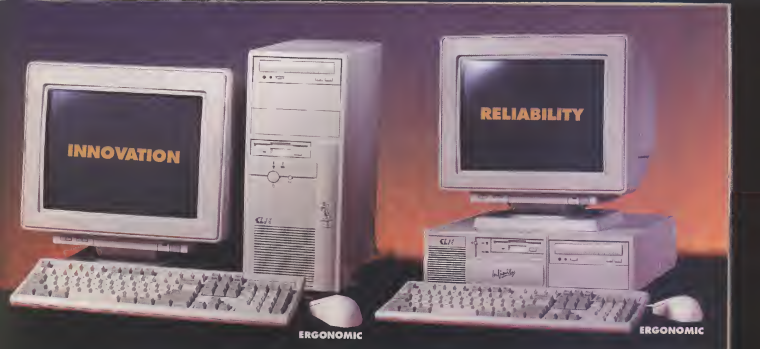

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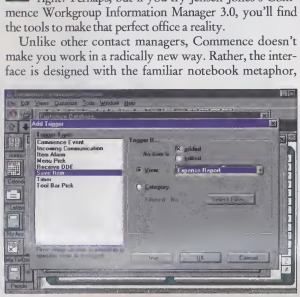
CONTACT MANAGER

Commence

The perfect office should run a lot like the perfect kindergarten class: Everyone works together and shares as much as they can. Easier said than done, right? Perhaps, but if you try Jensen-Jones's Commence Workgroup Information Manager 3.0, you'll find the tools to make that perfect office a reality.

Unlike other contact managers, Commence doesn't make you work in a radically new way. Rather, the interface is designed with the familiar notebook metaphor, including tabbed folders for the address book, calendar, letters, to-do lists, and appointments. Each folder—for example, contacts or appointments—is a view, which you can combine with the items you use most often, such as the address book or calendar.



Commence maintains workgroup-related information on the server, including projects, activities, schedules, contacts, and other important data. You can share and synchronize all information automatically in real time, even when it's being used remotely. Fear not, Commence also has security features that let you specify which records users can share.

Commence for workgroups does a fine job of maintaining information and letting you easily share it with others. In fact, having Commence is almost like having a personal assistant for every member of your staff. LIESL LA GRANGE NOBLE

FILEBOX

Commence Workgroup Information Manager 3.0

Pros: Easier than CrossTies or Net Manage's Ecco.

Cons: Linking information is not an intuitive process.

Verdict: Simple workgroup contact management.

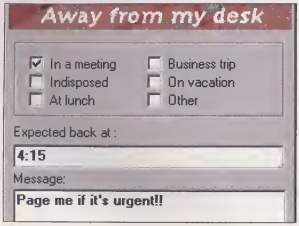
$180 for client, $180 for server
est. street price
Jensen-Jones
(800) 688-7080, (908) 530-4666
Reader Service No. 870

WINDOWS 95 UTILITY

E•Glue

Have you ever seen an office that wasn't plastered with yellow sticky notes? We seem to stick them everywhere, desperate to remember those little details or deliver a quick message.

The Plant Software's E•Glue brings that metaphor to Windows 95, providing a small, OLE-based sticky pad that sits on your electronic desktop. Even better, E•Glue takes the Post-it passion one step further by providing a series of templates. For example, if you're taking a phone message, the Message template includes check boxes for Phoned or Returned Your Call. You'll find six templates, including For Your Information, I'll Be Away from My Desk, and a cool template for recording your favorite Web sites.



Because the sticky notes are actually OLE containers, you can attach documents, sound, or video clips to any note you create. And you can send the notes via messaging applications programming interface (MAPI)–based e-mail.

E•Glue's only shortcoming is that it's a bit difficult to configure. You must go through a series of steps to use the sticky notes or change the note format. Aside from that hitch, E•Glue is a great tool for sending short messages to yourself and others. It does a fine job of replacing all those paper reminders that clutter people's offices. BENJAMIN F. MILLER

FILEBOX

E•Glue

Pros: Useful templates cover the basics for your sticky-note needs.

Cons: Configuring sticky-pad templates is tricky.

Verdict: A nifty tool for handling those short but important messages.

$50 est. street price
The Plant Software
(604) 682-8424
Reader Service No. 871

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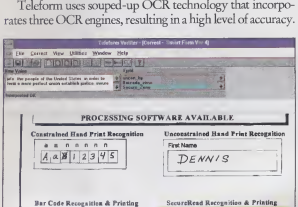
FORMS/OCR SOFTWARE

Teleform for Windows

Just mention forms and eyeballs will roll. We all hate them. With its Teleform for Windows, however, Cardiff Software tries to make life a bit easier. For example, if you have order forms faxed to your company, Teleform efficiently processes those forms and automatically enters all of the information into a database.

Teleform uses souped-up OCR technology that incorporates three OCR engines, resulting in a high level of accuracy.



With Teleform you can create forms that contain alphanumeric entry fields, discrete choice fields, bar codes, and SecureRead images. SecureRead is an encryption method that lets you store dense, encoded information in images. And you can link each of the fields, codes, or images to a specific field in the database.

Teleform also supports scanned forms, but our tests showed that many scanned forms require human attention. Fortunately, Teleform Verifier highlights the uncertain entries for you to correct if necessary. You can set a confidence level to control notification depending on how critical your data is.

You won't find another OCR forms program with as much power and practicality as Teleform. Delrina, Lotus Development, and Novell offer higher-end workgroup forms-processing solutions, but they will cost your company hundreds more per user.

S. JAE YANG

FILEBOX

Teleform for Windows

Pros: Linking fields from form to database is easy.

Cons: Separate software modules lack coherent integration.

Verdict: Worth giving a try before going to a more expensive solution.

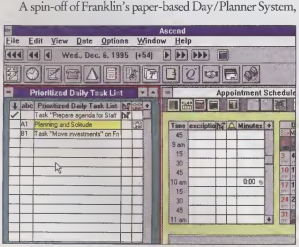
$1,495 est. street price
Cardiff Software
(800) 659-8755, (619) 931-4500
Reader Service No. 872

PERSONAL INFORMATION MANAGER

Ascend 5.0

Some people need a datebook to keep track of their schedule. Others need their mother. If you fall somewhere in between, try Ascend 5.0, Franklin Quest's latest personal information manager (PIM). This program won't choose your clothes in the morning, but it might help you realize that with a little direction, there really *is* enough time in the day.

A spin-off of Franklin's paper-based Day/Planner System,



Ascend is more than a place to park your appointments—it's a lifestyle. You set long-term goals, then prioritize them in the Daily Task List.

In version 5.0, Franklin Quest has simplified the Daily Task List and added a handy contact manager. Favorite Quotes (a spot to store inspirational ideas) and the Journal help you get in touch with your sensitive side. Lest you get too introspective, e-mail and group-scheduling features keep you hooked to the outside world.

Ascend is a thorough, thoughtful, new-age PIM. It's easy to use and easy to read. If all you want is to be on time for that Monday morning meeting, you probably won't use half the features—there are other, simpler PIMs for you. But if you want to get more insight into why you're always late, and how you can break that habit, Ascend just might help.

JULIE McCULLOUGH

FILEBOX

Ascend 5.0

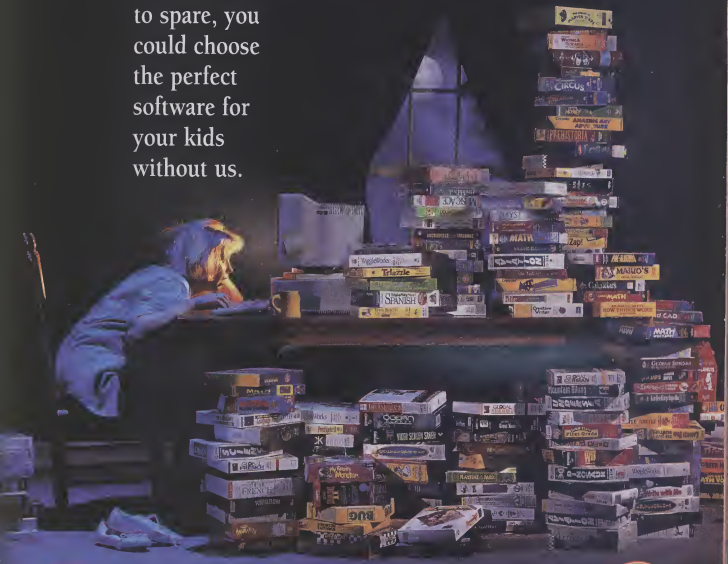
Pros: More than just appointment planning—Ascend works with you to get a handle on life.

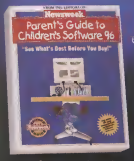
Cons: You'll need to schedule time to work on your schedule.

Verdict: A good antidote to mental clutter.

$99 est. street price
Franklin Quest
(800) 983-1776, (801) 975-9992
Reader Service No. 873

If you had $40,000 and 1000 hours to spare, you could choose the perfect software for your kids without us.





After all, it took thirty Newsweek writers and editors over six months to do it.

But we did it—with the help of a dozen smart kids. We clicked through nearly three hundred children's software titles selected from the thousands available, graded each one and awarded the top fifty the Newsweek Editors' Choice award.

Before you shop for children's software, you need the Newsweek Parent's Guide to Children's Software 96. It's the fun and easy-to-use CD-ROM that contains the world's first multimedia reviews of all fifty top titles — letting you experience the sound, video, animation and interactivity that makes each one work. (You'll also hear a lot more from those twelve smart kids.)

There's a special section for your children as well, with games, activities and a terrific nine-year-old host named Jazzie. There's also a 184-page book about children's software, packed with hundreds of report cards on all the titles we reviewed, presented with the crisp graphics and straightforward writing you expect from Newsweek. There's even an envelope filled with coupons worth more than six hundred dollars off top-name children's software.

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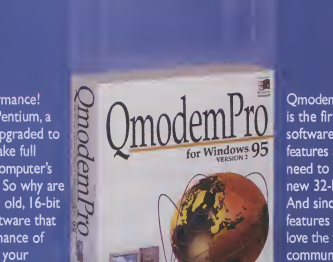

QmodemPro for Windows 95 is the first communication software that delivers all the features and performance you'll need to get the most from the new 32-bit Windows platform. And since you want dynamic features and ease of use, you'll love the fact that QmodemPro's communication and Internet capabilities go way beyond the standard terminal software included with Windows 95.

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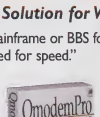
Designed for Microsoft® Windows 95 + = 

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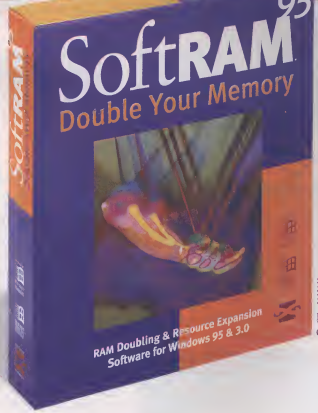

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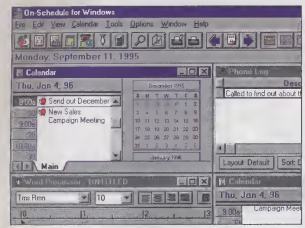
Circle 194 on reader service card.

PERSONAL INFORMATION MANAGER/CONTACT MANAGER

On-Schedule 2.0

If you have all the time in the world and you're eager to learn a powerful information- and contact-management tool, we have your product. Chances are you're more like the rest of us and barely have time to tie your shoes. But for those who fall into the former category, Odyssey Computing's On-Schedule 2.0 for Windows is a feature-rich product that makes managing contacts and contact-related tasks easier by putting everything you need in one convenient place. That is, if you can get over some of the initial usability problems.



On-Schedule integrates your favorite applications—such as your word processor and fax software—so you can call, fax, mail, and make appointments with your contacts without having to juggle all of your applications. While you're planning your day, you can launch your word processor to send a letter to your top customers, fax the monthly sales report to satellite offices, or use the phone log to track important calls.

While the concept is great, the implementation needs refining. Managing to-do lists and activities isn't very intuitive, and error messages are cryptic. The current version supports Windows 95, but we hope that the new version—designed specifically for Windows 95 and due out shortly—will address these usability issues.

LYDIA M. KARLOWICZ

FILEBOX

On-Schedule 2.0 for Windows

Pros: Everything you need to manage contacts is at your fingertips.

Cons: Usability features are sorely lacking.

Verdict: Once you learn to use On-Schedule, it can be a powerful tool.

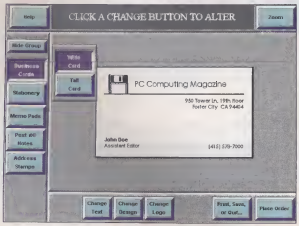
$60 est. street price
Odyssey Computing
(619) 675-3660
Reader Service No. 874

BUSINESS GRAPHICS

Business Image Bundle

Any product called World's Easiest is asking for a challenge. But World's Easiest Business Image Bundle comes as close as any package to earning that title. With a simple interface consisting of big buttons, step-by-step instructions, and plug-in layouts, it's the simplest computer tool since the on switch.

This program is made for beginners: The first few lines of the manual explain how the mouse works. Experienced graphics users will be bored with World's Easiest, but that's why they have Adobe's PageMaker.



With a few clicks, you can design your own business cards, stationery, even sticky notes. You can choose from the selection of layouts, fonts, colors, and clip-art logos, or import original designs. An onscreen preview shows the layout as you work.

The program lets you print designs onto decorated paper for ready-to-use cards and stationery. You can also send your final design via modem or floppy disk to the World's Easiest Print Center to be printed professionally.

What World's Easiest features in simplicity, it lacks in originality. The built-in fonts and layouts are stiff and unimaginative. But for the small-business owner who needs fast results and has bigger things to worry about, World's Easiest is truth in advertising.

JULIE McCULLOUGH

FILEBOX

World's Easiest Business Image Bundle

Pros: Lets you create great-looking designs in minutes.

Cons: Few fonts show up on the print preview.

Verdict: It's not art, but it's better than what you might create otherwise.

$35 est. street price
T/Maker
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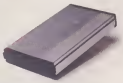

Fast and Faster: You bought a modem a few years ago, and you've learned to surf the Net and cruise America Online. Now it's time to upgrade. So, what kind of modem do you need? Technical Director Adam Meyerson explains who needs a V.34 modem and who needs a faster—but more expensive—ISDN adapter. He also covers the compatibility issues you'll need to understand. **293**

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Spotlight on *Buying Direct*

Direct Focus

PCs Compleat Offers Award Winning Service

In June of this year, Digital Equipment Corporation transferred its entire PC direct-response marketing business to PCs Compleat. This momentous decision culminated a 6-month search for a reseller that could successfully meet the challenge. In the end, the choice was obvious: PCs Compleat was selected because it could provide Digital customers with award-winning service levels.

A recipient of PC Computing's Five Star Award for customer service, Merrin Information Services Channelmaker Award for exceptional customer service and CIO Magazine's Esprit Award for use of information technology to serve customers, PCs Compleat is renowned for its commitment to customer satisfaction. Indeed, the company has built its business based on exceeding customer expectations for brand selection, service, delivery and competitive pricing.

"Unlike most direct resellers, we provide our customers with customized solutions to their PC needs," said Gordon B. Hoffstein, chairman and chief executive officer. "Whether our customers are purchasing notebooks, business desktops, multimedia desktops or servers, we can carefully match the right systems to their computing requirements."

With its "total system solution" philosophy, PCs Compleat offers an expansive range of peripherals and software. It serves as a "one-stop" source for PC products, and it can integrate these products into customers' systems FREE OF CHARGE.

"A customer may require add-ons such as expanded memory, a CD-ROM drive or additional software titles. At PCs Compleat, we not only offer these, but we install and test them to ensure that a system works flawlessly and is ready to run right out of the box,"said Hoffstein. "When something new hits the streets, such as Windows 95, access to this expert assistance can be critical - saving customers hours of time and resources."

PCs Compleat's other services include: lowest price guarantees, 30-day money-back guarantees, lifetime toll-free technical support, same-day shipping, FREE custom configuration, FREE software installation and more.

Now you can choose PCs Compleat as your source for PC products for the same reason Digital selected PCs Compleat - the service it provides. See our ad on pages 315 - 317.

For further information: Toll-Free Sales: 1-800-669-4727; Toll-Free Fax: 1-800-669-8329; INTERNET: sales@pcscompleat.com

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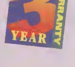

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AD#M12

MAKE YOUR CONNECTION

Modems: The Speed You Need

Ten million people will surf the Internet for the first time this year. Some will use a commercial service like America Online. Others will take a more direct route with Internet service providers like UUNet, Pipeline, and Netcom. Regardless of how you jump on the Net, you'll probably need a modem. Two types—V.34 (analog) and ISDN (integrated services digital network, or digital) offer performance gains that make the Net palatable.

Just six months ago, most of the online services didn't even offer 28.8Kbps (V.34) connections. Today V.34 is commonplace, as are the modems that support it. Look for backward compatibility with standards like V.32, V.32 bis, and CCITT Group 3 fax to make sure you can communicate with everyone all the time.

V.34 modems are perfect for zipping around an online service or the Internet, and for downloading files. Actually, the average connection rate isn't 28.8Kbps—it's closer to 26Kbps or 24Kbps. But even at that speed, a 1MB file comes down the wire quickly—in about 6 minutes.

If you need peppy Net connections or remote access/control, ISDN may be your answer. At speeds of 64Kbps or faster, ISDN runs up to four times as fast as some analog modems. And, depending on the adapter, you can also combine two 64Kbps lines for a total bandwidth of 128Kbps. An ISDN adapter attaches to your system via the serial port, just like a regular modem. You'll have to see if your phone company and service provider offer ISDN service, and if you can get it wired to your home or office for a *reasonable* price.

Select an ISDN adapter that supports all of the analog standards—including V.34, V.32 bis, and V.32—and the new V.120 ISDN standard in one unit. That way you'll have to install only one device. Make sure it has a built-in network terminator (NT1). Many units still rely on a separate, external NT1 that takes up space, is expensive, and can be hard to configure. Investigate what it will take to set up the adapter. ISDN is still in its infancy and needs improvement in usability. For many, however, the speed is worth it.

ADAM MEYERSON

MODEMS GET A SPEEDY CONNECTION FOR LIFE IN THE FAST LANE

Transmission Rate: V.34 (28.8Kbps) for online services, short remote-control sessions, and basic Internet access. ISDN (64Kbps) for extensive Internet access and remote-control–access sessions.

Supported Standards: Data speed of 28.8Kbps for V.34. Error correction of V.42; data compression of V.42 bis; CCITT Group 3 Class 1, Class 2, and CAS (fax); V.120 standard for ISDN.

Compatibility: Hayes AT command set for both V.34 and ISDN.

Features and Options: Integrated voice, data, and fax; onboard digital signal processor (DSP); 16550 UART on internal modems. For ISDN modems, get a unit with a built-in NT1 and V.34 analog support.

Usability: LCD readout on external models. Windows software with support for Zmodem, Ymodem, Xmodem, and Kermit transfer protocols. Built-in scripts for CompuServe and MCI. Support for calling cards. Windows setup software for internal modems (no jumpers). Windows setup software for all ISDN models.

Windows 95 Considerations: Windows 95 automatically detects most of today's modems and includes support for some ISDN models. If it's not supported, make sure your modem comes with a Windows 95 driver disk.

Direct to You SPEC WATCH: Don't Settle for Less Than These Specs

HIGH-END DESKTOP SYSTEMS

CPU: 90MHz to 133MHz Pentium.

RAM: 16MB.

Secondary CPU Cache: 256K.

Display: 17-inch, 1,024 by 768 at 72Hz or higher refresh rate.

Video Card: 64-bit PCI graphics accelerator, 2MB of VRAM or WRAM, 72Hz or higher refresh rate.

Hard Drive: 1GB.

Bus: Six slots including two PCI.

Features and Options: 16-bit Sound Blaster–compatible sound card, four available half-height 5.25-inch drive bays, 21-inch monitor, graphics accelerator with 4MB of RAM, six-speed CD-ROM drive.

Usability: Flash BIOS for easy upgrades, tool-free cover removal, upgradable CPU socket, easy access to SIMMs.

Windows 95 Considerations: A Plug and Play BIOS lets Windows 95 reconfigure motherboard resources if a conflict arises. Even without a Plug and Play BIOS, Windows 95 can detect resources and reconfigure a Plug and Play peripheral. Note that many Plug and Play BIOSs came out long before Windows 95. Check your BIOS date and upgrade it if a newer version is available.

ENTRY-LEVEL DESKTOP SYSTEMS

CPU: 66MHz 486DX2.

RAM: 8MB expandable to 32MB, 72-pin SIMMs.

Secondary CPU Cache: 256K.

Display: 15-inch, 800 by 600 at 72Hz or higher refresh rate.

Video Card: 64-bit graphics accelerator, 1MB of DRAM, 72Hz or higher refresh rate at all resolutions.

Hard Drive: 500MB EIDE.

Bus: Six slots including two PCI.

Features and Options: 16-bit Sound Blaster–compatible sound card, four available 5.25-inch drive bays, 2MB of memory on graphics accelerator.

Usability: Flash BIOS for easy upgrades, tool-free cover removal, upgradable CPU socket, easy access to SIMMs.

Windows 95 Considerations: A Plug and Play BIOS lets Windows 95 reconfigure motherboard resources if a conflict arises. Even without a Plug and Play BIOS, Windows 95 can detect resources and reconfigure a Plug and Play peripheral. Note that many Plug and Play BIOSs came out long before Windows 95. Check your BIOS date and upgrade it if a newer version is available.

GRAPHICS ACCELERATORS

Resolutions: 800 by 600 for 15-inch monitors; 1,024 by 768 for 17-inch; 1,280 by 1,024 for 20- and 21-inch.

Colors: 256 colors for business applications; 65,000 colors for near–photo-quality images.

Vertical Refresh Rate: 72Hz or higher at all resolutions.

RAM: 1MB of DRAM for 256 colors at 1,024 by 768; 2MB of VRAM or WRAM for higher resolutions.

Features and Options: For Windows systems, a utility for switching resolutions and colors. VESA advanced feature connector (VAFC) or VESA media channel (VMC) feature connector.

Usability: Virtual desktop software utility.

Windows 95 Considerations: Plug and Play support lets Windows 95 automatically identify video cards and configure them. Even non–Plug and Play video cards may be identified, but must be reconfigured manually. Windows 95 has a utility for switching resolutions and color depth, and for power management. Plug and Play support in your video card is required to take advantage of Plug and Play monitors.

DESKTOP MONITORS

Size: 17-inch; 20- to 21-inch for CAD, desktop publishing, or graphics applications.

Resolutions: 1,024 by 768 for 17-inch; 1,280 by 1,024 for 20- and 21-inch; 1,600 by 1,280 for CAD and document imaging.

Dot Pitch: 0.28mm or smaller for 17-inch, 0.31mm or smaller for 20- and 21-inch.

Vertical Refresh Rate: 72Hz or higher at all resolutions.

Tube Type: Flat-square or Trinitron.

Features and Options: Support for MPR II low-emissions standards, compliance with EPA Energy Star requirements, ability to save settings for various resolutions and refresh rates.

Usability: Adjustable tilt-and-swivel base, antiglare coating, onscreen controls.

Windows 95 Considerations: Plug and Play support lets Windows 95 automatically identify a monitor (a Plug and Play graphics card is required) and select the proper video resolution.

NETWORK **FILE SERVERS**

CPU: 66MHz 486DX2 or 75MHz Pentium.

RAM: 16MB expandable to 128MB, 72-pin SIMMs.

Secondary CPU Cache: 256K.

Display: 14-inch, capable of 640-by-480 resolution.

Video Card: 512K of RAM.

Hard Drive: 2GB SCSI-2.

CD-ROM Drive: Quad-speed.

Bus: Eight slots with a combination of EISA and PCI.

Features and Options: Server-management software, RAID Level 5, Wide SCSI-2, DAT backup, uninterruptible power supply, two half-height and two full-height 5.25-inch drive bays with front-panel access, locking cabinet, integrated SCSI controller, Ethernet controller, two COM ports, one parallel port, keyboard, and mouse.

Usability: Flash BIOS for easy upgrades, hot-swappable hard disks, upgradable CPU socket, easy access to SIMMs.

Windows 95 Considerations: For peer-to-peer networks you don't need a server. All you need are network cards—Ethernet, for example—and the appropriate cabling. Client drivers include support for NetWare, Windows NT, Banyan VINES, and SunSoft.

HARD DISK DRIVES

Performance: 13ms or faster vendor-rated average access time. If vendor reports performance as average seek time, look for 10ms or faster.

Cache or Buffer: 256K.

Capacity: 500MB or greater.

Size: Half-height 3.5-inch for 1GB and smaller, half-height 5.25-inch for 1GB to 2GB, full-height 5.25-inch for 2GB and larger.

Interface: EIDE or SCSI-2.

Features and Options: Mounting rails, cables, minimum three-year warranty—minimum five-year warranty for 2GB and larger disks. Partitioning software, setup software for older BIOSs that don't support 1GB drives.

Usability: All jumpers labeled in English, documentation detailing jumper functions.

Windows 95 Considerations: Both IDE (Enhanced and standard) and SCSI-2 are well supported. Partition size is still limited to 2.1GB.

CD-ROM DRIVES

Access Time: 200ms.

Transfer Rate: 600KBps (quad-speed drive).

Cache: 64K on drive.

Interface: EIDE or SCSI-2.

Compatibility: High Sierra and ISO-9660, CD-Audio and Kodak Photo CD (for still photography) with multisession support (MPC 2).

Audio: Output jack and volume control.

Features and Options: CD changer holding two or more CDs; six-speed.

Usability: No CD caddy required, double doors to keep out dust, external controls for audio CDs.

Windows 95 Considerations: For optimum performance, make sure that Windows 95 protected-mode drivers are available. CD-ROM drives with real-mode drivers offer poor performance under Windows 95.

SOUND CARDS

Compatibility: Sound Blaster.

Mode: Stereo.

Sampling Capability: 8- and 16-bit record and playback at 44.1kHz.

Synthesizer: Wavetable, or FM with Wave option.

Voices: 16 simultaneous in Sound Blaster mode, 24 in Roland.

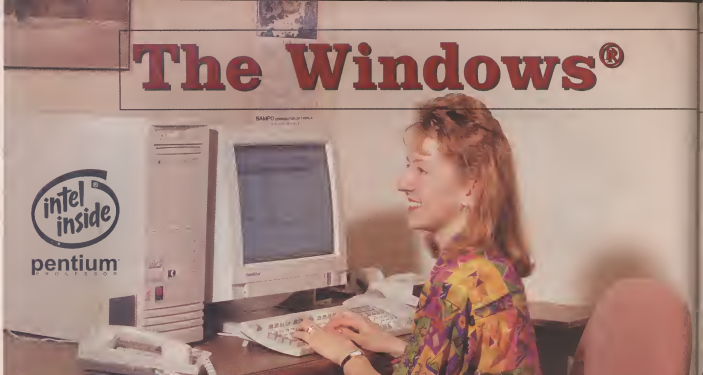
Ports: Speaker, microphone, and joystick.

Features and Options: Programmable digital signal processor (DSP), SCSI or EIDE port for a CD-ROM drive, QSound Virtual Audio, microphone, headset, and powered speakers.

Usability: Software configurable (no jumpers), bundled software for speech-to-text and command control.

Windows 95 Considerations: Plug and Play support lets Windows 95 automatically identify sound cards and reconfigure them if necessary. In some cases, even non–Plug and Play sound cards may be identified, but they must be reconfigured manually.

The Windows®



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- **15"** .28mm Flat Color Monitor
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- Advanced Power Management
- Bi-Directional Parallel Port
- External VGA/Keyboard/Mouse ports
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- Quicken, Prodigy, Compuserve and America Online preloaded
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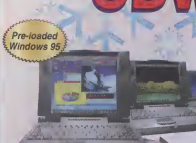

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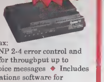

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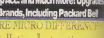

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Premium 386/33TE 486/25TE, 486/33TE			
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92G7543 (16Meg)	Aptiva 310 330 350 510 530 710 730	559.00
92G7545 (32Meg)	Aptiva 310 330 350 510, 530 710 730	1049.00
73G3132/92G7203 (8Meg)	Value Point Performance, PC Server 4/66	339.00
60G1622/92G7204 (16Meg)	Value Point Performance PC Server 4/66	609.00
92G7205 (32Meg)	Value Point Performance PC Server 4/66	1239.00
6450902 (2Meg)	56 57 57SX 90 95 P-75 57SLC Value Point 77 486DX2 486SX SVR 85	90.00
6450128/92G7200 (4Meg)	57SX 90 95 P-75 57SLC 56, 56SLC P/S1 386SX, Mod 2123, 2133, 2155, Val Pt.77 486CS2 486SX, SVR85 Value Point 77 486DX2, 486SX, SVR 85	169.00
6450129/92G7428 (8Meg)	35SX, 40SX	330.00
6450130/92G7202 (8Meg)	56 57, 57SX 90 95 P-75 57SLC Value Point 77 486DX2 486SX, SVR 85	338.00
6451158/92G7208 (4Meg ecc)	486 95XP, 95A (install in pairs)	199.00
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92G7209/32G3720 (16Meg ecc)	9585 OPT	719.00

IBM NOTEBOOK & LAPTOP MEMORY

07G1415/07G1420 (4Meg)	Thinkpad 750 C 700 C, 720 C CL57SX	179.00
07G1416/07G1421 (8Meg)	Thinkpad 750 C 700 C 720 C CL57SX	349.00
66G0095 (16Meg)	Thinkpad 750 C	819.00
66G0094 (4Meg)	Thinkpad 755 360 355, 340 450	179.00
66G0094 (8Meg)	Thinkpad 755 360 355 340 450	329.00
66G0094 (16Meg)	Thinkpad 755 360 355 340 450	619.00
8189098 (4Meg)	Thinkpad 500 510CS (3.3 volt)	189.00
8189099 (8Meg)	Thinkpad 500 510CS (3.3 volt)	349.00
79F0999 (2Meg)	LX40 N33SX PS Note	103.00
79F1000 (4Meg)	LX40, N33SX PS Note Tkpd 350 350c, PS Note 425	189.00
79F1001 (8Meg)	LX40 N33SX PS Note	349.00
Hard Drive (524Meg 710 Meg)	Thinkpad 750 755 360 355	829/929
(4Meg/16Meg)	Thinkpad 755 Dimm Modules	199/749
(4Meg/16 Meg w/Adap	Thinkpad 755	269/839
60G0378 (8Meg)	Thinkpad 350, 350c PS Note 425	339.00
60G0379 (16Meg)	Thinkpad 350, 350c, PS Note 425	569.00
92F8804 (2Meg)	N45SL	109.00
92G7259 (4Meg)	Thinkpad 701C CS, Butterfly	189.00
92G7261 (8Meg)	Thinkpad 701C CS Butterfly	369.00
92G7263 (16Meg)	Thinkpad 701C, CS, Butterfly	649.00
4Meg/8Meg/16Meg (730T only)	Thinkpad 340 730T	219/359/709
8Meg/16Meg	Thinkpad 820	390/729
4Meg/8Meg/16Meg/32Meg	Thinkpad 850	193/399/718/1438
4Meg/8Meg/16Meg/32Meg	PC300 Pentium	179/339/629/1259

COMPAQ MEMORY MODULES

MODEL	AMT UPGRADED	CMPQ PART #	PRICE
DeskPro 386/33, 386/33L, 486/25, 486/33L, 486/50L System Pro	2Meg Module	115144 001	89.00
	8Meg Module	118561-001	299.00
	32Meg Module	118568-001	1399.00
DeskPro 386/33L, 486/33L	(Exp Bd)	116589-001	279.00
DeskPro 386/25 386/20	1Meg Module	113131 001	79.00
	4Meg Module	113132-001	189.00
DeskPro 386S-16MHz	1Meg Exp Bd	113833-001	149.00
	4Meg Exp Bd	113634-001	278.00
	1Meg Module	113646-001	79.00
	4Meg Module	112534-001	199.00
DeskPro 386/20E	1Meg Exp Bd	113644-001	149.00
DeskPro 386/25E	4Meg Exp Bd	113645-001	279.00
	1Meg Module	113131-001	79.00
	4Meg Module	113132-001	199.00
DeskPro 286N 386N 386SX20 all "M" series sytem LT series all "I" series	1Meg Module	118688-001	59.00
	2Meg Module	118689-001	89.00
	4Meg Module	118690-001	169.00
	8Meg Module	128877-001	339.00
M Series Exp Bd	0-64Meg	129160-001	189.00
DeskPro 386/16	1-2Meg Exp Bd	108069-001	289.00
	4-8Meg Exp Bd	108070-001	437.00
DeskPro 286	512K Kit	113012 001	49.00
DeskPro 5/60, 5/66M 5/66M (ALL OF THESE MACHINES USE THESE MODULES)	8Meg Kit	149911-001	378.00
Prosignia 5/60	16Meg Kit	149949-001	878.00
Proliant 100 5/60	32Meg Kit	149912-001	1420.00
Proliant 2000 4/30 5/66	64Meg Kit	149913-001	2476.00
Proliant 4000 4/50 5/66	128Meg Kit	149914-001	5076.00
Prolinea 386 3/25S 3/25ZS	2Meg	141736-001	90.00
	8Meg	141742-001	298.00
Prolinea 486 4/25S 4/33, 4/50 4/66 CDS	2Meg	141683-001	95.00
Enhanced Prolinea, Prosario series	4Meg	141684 001	169.00
	8Meg	141685-001	339.00
Prosignia PC Server 486/33 486 DX2/66	8Meg	141685-001	339.00
	16Meg	149320-001	829.00
	32Meg	149147-001	1289.00

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LTE/386S/20	4Meg Module	121125-002	209.00
LTE LITE/20, 25, 25C	4Meg Module	129769-002	209.00
LTE LITE/20, 25 25C	8Meg Module	129769-003	439.00
LTE LITE/20 25 25C	16Meg Module	129769-004	669.00
LTE LITE 425C/33C/25E/25L	4Meg Module	142337-002	189.00
LTE LITE 425C/33C/25E/25L	8Meg Module	142337 003	349.00
LTE LITE 425C/33C/25E/25L	16Meg Module	142337-004	619.00
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	8Meg	144790 002	353.00
	16Meg	144790-003	619.00
Contura 320 325	2Meg	136497 001	99.00
	4Meg	136498 001	189.00
	8Meg	136499-001	339.00
Contura 400 410	4Meg/8Meg/16Meg		189/369/619
Contura 420 430	4Meg/8Meg/16Meg/20Meg		219/379/719/879
Contura 4/25 4/25C, 4/25CX	4Meg	146520-001	189.00
	8Meg	146521-001	349.00
	16Meg	148531-001	818.00
Aero 4/25 4/33	4Meg	190532 001	164.00
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T2100, 2105 2150	16Meg/24Meg		729/1134
T4400SX, SXC T6400 T6600	4Meg	PC-PA2004U	188.00
T4400SX, SXC T6400 T6600	8Meg	PC-PA2005U	379.00
T4400SX SXC T6400 T6600	16Meg	PC-PA2010U	688.00
T4500 C T4600 T4700 T1900, C, T1910, T1950 (3.3 v)	4Meg	PC-PA2012U	189.00
T4500 C T4600 T4700 T1900, C, T1910, T1950 (3.3 v)	8Meg	PC-PA2013U	349.00
T4500, C T4600 T4700 T1900, C, T1910, T1950 (3.3 v)	16Meg	PC PA2014U	652.00
T4700 4800, 4850 (Hard Drive)	524Meg/710Meg		789/1098
T3400CT, T2400, T3600	4Meg/8Meg/16Meg	PC-PA2018U	189/359/618
T3400CT	32Meg		1548.00
T3100SX	2Meg	PC15-PA8308U	109.00
T3100SX	4Meg	PC15-PA8310U	189.00
T5200/T8500	2Meg	PC10-PA8304U	49.00
T5200/T8500	8Meg	PC10-PA8313U	419.00
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ACER 763 765 782 784 786 787,	4Meg/8Meg/16Meg		199/379/719
ACER 750	4Meg/8Meg/16Meg		189/379/629
ALR Ventura	4Meg	12407980	249.00
Altima Viraga	4 Meg/16 Meg		199/679
Altima Virega II	4Meg/8Meg/16Meg		199/369/622
AST Advantage Adventurer 4066D 6066D 9066D	8Meg/16Meg/32Meg/64Meg		189/409/599/1262
AST Ascentia 900N 800N	4Meg/8Meg/16Meg		189/379/629
AST Ascentia 350	8Meg/16Meg		419/759
AST Bravo & Explorer	4Meg/16Meg	501285 001 -002	189/679
AST Bravo MS-L P90	8Meg/16Meg/32Meg/64Meg		379/759/1249/2599
AST Notebook Prem Exec 386SX/20/25/25L	4Meg	500814 003	189.00
AST Power Exec 3/25C, 425EL, 425SL	4Meg/16Meg	501186-001 -003	199/629
AST Power Exec 4/33SL	4Meg/16Meg	501318-001 002	194/679
AT&T Globalyst 130	4Meg/8Meg		199/379
AT&T Globalyst 200	4Meg/8Meg/16Meg		199/389/679
AT&T Safari NSX/20	4Meg	PEC 37651	259.00
Austin DX4 DX2, SX2, SX Series	4Meg/16Meg		199/699
Bondwell 8310, Plus	1Meg	23050-09100	89.00
Bondwell 6310V SX	1Meg/4Meg		109/229
Canon Innova Book 150	4Meg/16Meg		199/769
Canon Innova Book 200LS	4Meg/8Meg/16Meg/24Meg		189/379/639/Call
Canon Innova 486	2Meg/4Meg/8Meg		109/209/449
Canon Innova 486-10	4Meg/16Meg		189/639
Canon Notejet 486	4Meg/8Meg		109/389
Canon Notejet DX4/75	4Meg/8Meg/16Meg		209/379/679
Compuadd 425TX Notebook	4Meg/16Meg		199/690
DEC HiNote	4Meg/8Meg/16Meg		189/379/669
Dell Latitude M, MC, MCX	4Meg/8Meg/16Meg		189/379/639
Dell Latitude XP, 475 4100, 4100CX	4Meg/16Meg		199/639
Dell Latitude 460 425 433C, 433CX, 450 450CX	4 Meg/16 Meg		199/679
DTK 4T100P Notebook	4Meg/8Meg/16Meg		189/369/639
Epson ActionNote 650 850c	4Meg/8Meg/16Meg		209/399/659
Epson ActionNote 700 700c 700cx	4Meg/16Meg		199/639
Epson ActionNote 880, 866c	4Meg/8Meg/16Meg/20Meg		Call/389/669/Call
Epson ActionNote 4000 Notebook	6Meg		279
Epson ActionNote 4LC/25, 4LC/33, 4SLC/2-50	2Meg/6Meg		110/270
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Gateway 2000 Nomad 425 DXL/SXL	4Meg/16Meg		199/789
Gateway 2000 486 Handbook or Liberty	4Meg/16Meg		199/679
HP Omnibook 300 430 425	2Meg/4Meg		129/219
HP Omnibook 530 600	4Meg/8Meg/12Meg		189/379/549
HP Omnibook 4000	4Meg/8Meg/16Meg		199/379/649
Leading Edge Aviva 2000	4Meg/16Meg		199/639
Lexmark SE10	4Meg/8Meg		209/399
Magnavox Metalis	1Meg/4Meg	286 386SX	109/199
Midwest Micro Elite SX-25, SX33 DX2-50 DX2-66	4Meg/8Meg/16Meg		199/389/629
Midwest Micro Elite Sndbk SX33, DX3-50, DX4 75, DX4-100	4Meg/8Meg/16Meg		199/389/629
Midwest Micro Elite Sndbk Plus 05 75, 05-90	4Meg/8Meg/16Meg		199/389/629
NCR Safari 3180	4Meg/8Meg		189/369
NEC Ultralite Versa E V	4 Meg/8Meg/16Meg/20Meg	OP4104	183/358/619/799
NEC Versa Removable Hard Drive	540Meg/710Meg/810Meg		859/949/1033
NEC Versa S	4Meg/8Meg/16Meg		189/379/629
NEC Versa 2000C & 2000D	4Meg/8Meg/16Meg		199/379/799
Packard Bell 386SX 286	1Meg 4Meg	286, 386SX	109/179
Packard Bell Statesman	2Meg/8Meg		119/369
Panasonic CF170 CF270 CF370	1Meg	CF-8A165	58.00
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Readwriter Card (15A Slot)	149	Panasonic KXL-0720 port CDRom player	339
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Lan Ethernet (Coax)	129	Type III 170 Mg Hard Drive	499
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Epson Action Laser 1100, 1600	–	–	99	99	–	–	189	–	–	379	599	–
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HP 4Si	–	–	–	69	–	–	155	–	–	299	–	–
HP 5P	–	–	–	69	–	–	155	–	–	305	530	–
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Oki 400	–	–	–	104	–	–	–	–	–	–	–	–
Oki 400E 400EX, 410E 410EX	–	–	135	189	–	–	–	–	–	–	–	–
Oki 830 840	–	–	–	109	–	–	–	–	–	–	–	–
Packard Bell PB 9500	–	–	–	138	–	–	227	–	–	–	–	–
Packard Bell 9815	–	–	–	159	–	–	269	–	–	–	–	–
Panasonic 4420/44501	–	–	–	129	–	–	229	–	–	–	–	–
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Sharp 9400 9460 9600 9700E	–	–	89	149	–	–	249	–	–	–	–	–
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TI XL/PS17/PS35	–	–	49	–	–	–	–	–	–	–	–	–
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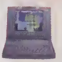

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Hinote 4/75 4/340MB Active	2199	2169
Hinote 4/75 4/510MB Active	2449	2419
Hinote Ultre 4/75 8/528MB Dual	2989	2949
Hinota Ultre 4/75 4/340MB Active	3249	3199
Hinote Ultre 4/75 8/528MB Active	3539	3499
IBM		
701CS 4/75 8/540MB Dual	$3399	$3229
701C 4/75 8/540MB Active	3599	3399
755CSE 4/100 8/810MB Duel	4099	4049
755CX 4/75 Pentium® 8/540MB Active	4699	4589
755CD 4/100 8/810MB W/CD Active	4899	4869
755CX 4/75 Pentium® 8/810MB Active	5099	4969
820 Power PC/100 32/1200MB Active	7899	7799
TOSHIBA		
T2110CS 4/75 4/330MB Dual	$1949	$1929
T2100CT 4/50 4/330MB Active	2379	2349
T2130CS 4/75 8/500MB Duel	2429	2399
T2130CT 4/75 8/500MB Active	2989	2949
T400CS P/75® 8/810MB Dual	3499	3449
T400CDT P/75® 8/810MB w/CD Active	4299	4269
T610CT P/90® 8/720MB Active	4299	4289

MONITORS

MAG
DX17F 17" .26mm
$639 $619

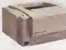
	ELP	BCP
DX15FG 15" 26mm	$385	$366
MX21F 21" .28mm	1730	1700
MITSUBISHI ELECTRONICS		
Diemond Pro 14 Plus .28mm	$330	$315
Diemond Pro 17TX	1050	1030
Diamond Scan 20H	1650	1580
Diamond Pro 21TX	1880	1850
CTX		
1565CD 15" .28mm	$350	$340
1765GME 17" .27mm	630	620
1785GME 17" 26mm	690	680
2085 20" .28mm	1100	1080
Panasonic Office Automation		
PaneSync 15" .27mm	$410	$390
PeneSync 17" .27mm	765	725
PanaMedia 17 17" .27mm	860	830
PeneSync Pro 17" .25mm	900	855
PanaSync Pro 21" .25mm	1620	1600
SONY		
CPD-1425 14" .25mm	$300	$286
CPD-15SF 15" .25mm	460	449
CPD-17SF 17" .25mm	850	835
GDM-20SE 20" .25mm	1900	1880

VIDEO CARDS

DIAMOND
Speedstar 64 1MB
$140 $137

	ELP	BCP
Speedstar Pro 1MB	$97	$87
Speedstar 64 2MB	192	189
Steelth Video 2MB	214	209
Stealth 64 2MB	319	309
Staalth 64 4MB	464	454
Viper Pro 2MB	389	379
Viper Pro 4MB	534	519
Number Nine		
GXE64 2MB DRAM	$239	$227
GXE64 Pro 2MB VRAM	339	324
GXE64 Pro 4MB VRAM	509	484
9FX Vision 330 2MB	172	163
9FX Motion 531 2MB DRAM	215	204
9FX Motion 771 4MB VRAM	429	409

PRINTERS



HEWLETT PACKARD
LaserJet 5P 6ppm 600dpi
$844 $829

	ELP	BCP
DeskJet 600 Inkjet 600dpi Color	$289	$284
DeskJet 660C Inkjet 600dpi Color	399	379
DeskJet 850C Inkjet 600dpi Color	509	499
LaserJet 5L 4ppm 300dpi	509	484
LaserJet 5MP 6ppm 600dpi	989	979
LaserJet 4+ 12ppm 600dpi	1394	1369
LeserJet 4M+ 12ppm 600dpi	1909	1889
EPSON		
ActionLaser 1100 4ppm 300dpi	$379	$369
Stylus Color II Inkjet 720dpi	429	409
Stylus 1000 Inkjet 360dpi	469	459
ActionLaser 1400 4ppm 600dpi	479	474
Canon		
BJ-200EX Inkjet 720dpi	$199	$184
BJ-10SX Inkjet 360dpi	220	209
BJC-610 Inkjet 720dpi Color	469	459
BJC-4100 Inkjet 360dpi Color	380	340
LBP-460 4ppm 600dpi	384	364
LBP-1260 12ppm 600dpi	1279	1264
MultiPass 1000 Multi-function	724	689
LEXMARK		
Optre R 12ppm 1200dpi	$1419	$1399
Optra L 12ppm 1200dpi	1869	1849
Optra RX 16ppm 1200dpi	2000	1970
Winwriter 150C Inkjet 300dpi	359	349
Medley 4C Multi-function	800	760
OKIDATA		
OL600e 6ppm 600dpi	$400	$380
OL610e 6ppm 600dpi	500	475
OL810e 8ppm 600dpi	744	729
OkiJet 2010 Inkjet 600dpi Color	364	344
brother		
HL-630 6ppm 300dpi	$399	$389
HL-645 6ppm 300dpi	434	419
HL-660 6ppm 600dpi	585	556
HL-660PS 6ppm 600dpi	830	790
MFC-4000ML Multi-function	870	846

MULTIMEDIA

DIAMOND
4400 4X Home
$279 $275

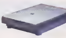
	ELP	BCP
500 4X CD-ROM Upgrade	$208	$197
7000 4X w/Top Gemes	355	345
8000 8x w/Wavetable	570	540
CREATIVE		
Sound Blaster 16 Velue Edition	$97	$87
Sound Blester 32	152	144
Sound Blaster 16-SCSI	160	158
Sound Blester AWE32	223	211
Discovery 4XI Kit	330	312
Digital Schoolhouse 4X Kit	300	295

CD-ROMS

NEC
6XI 145ms Access
$455 $435

	ELP	BCP
6XE PC/Mec External	$545	$535
PLEXTOR		
4Plex 4X Internal	$306	$300
4Plex 4X Intemel With Controler	356	350
6Plex 6X Internal	440	430
6Plex 6X Internel With Controller	500	480
SONY		
CSD-760E 4X Internel	$216	$205
PRD-150 2X Discmen	335	315
Spressa CD-Recordeble	1850	1749
TOSHIBA		
XM3601BS Quad Speed Intemel	$314	$299
TXM3601 Quad Speed External	409	389

SCANNERS



HEWLETT PACKARD
ScanJet 3C 600dpi Color
$899 $889

	ELP	BCP
ScanJet 3P 300dpi Grayscale	$307	$299
Canon		
IX-3010 300dpi Greyscale	$298	$293
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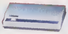
MICROTEK		
ScenMeker IIG 300dpi Grayscale	$215	$209
ScanMaker II 300x600dpi Color	354	349
ScanMaker IISP 300x600dpi Color	444	439
ScanMaker IIHR 600dpi Color	529	519
ScanMaker III 600x1200dpi Color	1980	1850
EPSON		
ES-300GS PDS	$494	$469
ES-600C 300dpi Color	489	479
ES-1000C 400x800dpi Color	714	699
ES-1200C 600dpi Color	889	879
ES-1200C Pro 600dpi Color	1099	1079

MODEMS



USRobotics
Sportster 28.8 Fax Ext.
$200 $190

	ELP	BCP
Sportster SI 14.4/Fax Internal	$50	$45
Sportster SI 14.4/Fax External	60	55
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MVP288XF 28.8/Fax External	154	146
Hayes		
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Accura 14.4B+Fax Externel	106	102
Accura 28.8 V.34/V.FC/Fax Intemel	182	172
Accura 28.8 V.34/V.FC/Fax External	220	210
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14.4/Fax External	90	86
28.8/Fax Internal	161	156
28.8/Fax External	181	176
28.8/Fax PCMCIA	274	260

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	ELP	BCP
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ST15230N 4.2GB SCSI	1030	980
CONNER *The Storage Answer*		
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Filepro 635MB IDE	188	178
Filepro 850MB IDE	200	190
Filepro 1.275GB IDE	249	229
Maxtor		
7850AV 850MB IDE	$216	$205
71050A 1080MB IDE	270	256
71626AT 1600MB IDE	374	354
Quantum		
Lightning 540MB IDE	$180	$170
Trailblazer 850MB IDE NEW!	200	190
Fireball 1080MB IDE	237	225
Firebell 1280MB IDE	253	240
WESTERN DIGITAL		
Cevier 635MB IDE	$185	$175
Ceviar 850MB IDE	216	208
Ceviar 1080MB IDE	243	230
Cavier 1275MB IDE	320	302

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COLORADO

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700MB Jumbo Internal	190	180
1400MB Jumbo Internal	219	208
350MB Trakker External	219	208
700MB Trakker Externel	325	315
IOMEGA		
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Ditto 850	195	185

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910N 486/75	8/700MB	Active	2999	2959
950N P/75*	8/500MB	Dual	2629	2599
950N P/75*	8/800MB	Dual	2859	2829
950N P/75*	8/1200MB	Dual	3249	3199
950N P/75*	8/1200MB	Active	4199	4149

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450T 4/75 4/340MB Active	2399	2279
550 P/75* 8/524MB Dual	2399	2349
550CD P/75* 8/524MB/CD Dual	2899	2829
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- 1024x768 resolution at 76hz refresh
- .28 dot pitch
- Plug & Play compatible with Windows 95
- Easy access front mounted controls
- MPR-II and Energy Star compliant

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	ELP	BCP
MultiSync XV14 14" .28 mm	$299	$297
MultiSync XV17 17" .28 mm	724	719
MultiSync XE15 15" .28 mm	580	550
MultiSync XE17 17" .28 mm	969	959
MultiSync XE21 21" .28 mm	1730	1714

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See The Difference!

- 17" flat screen, .27 dot pitch
- 1280 x 1024 non-interlaced resolution
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- Energy Star compliant
- Integrated stereo speakers

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	ELP	BCP
15G, 15", .28 mm, 1280 x 1024	$420	$410
17GS, 17", .27 mm, 1280 x 1024	746	736
20G, 20", .28 mm, 1600 x 1280	1320	1300
21PS, 21", .25 mm, 1600 x 1280	1780	1700

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Put this together with a 256K cache – twice the size of most notebooks – and you have all the power of a desktop, without the desk

- 256K CACHE
- INTERNAL CD-ROM (Optional)
- TV TUNER MODULE (Optional)
- VESA LOCAL BUS VIDEO & LOCAL BUS IDE
- TRUE SOUND AUDIO SYSTEM
- EXTRA PORTS

NP8500

11.3" OVERSIZED MONITOR

It's easy to see the advantages of our NP8500 with oversized screen. Your graphics never looked better or moved faster. The 11.3" dual scan color VGA display is the largest screen offered on a portable — providing a viewing area that's 41% larger than the standard 9.5" screen. Which will make it easier to see your graphics speed through the high-performance 32-bit VESA Local Bus Video with Windows Accelerator. Combine this with an advanced 16-bit audio system and a double life NIMH battery and you've got a notebook that gets noticed.

- 11.3" OVERSIZED DISPLAY
- VESA LOCAL BUS VIDEO
- DOUBLE LIFE NIMH BATTERY
- TRUE SOUND AUDIO SYSTEM

NP7500

PENTIUM/486

Nothing can catch this portable when it's on the run. Our new NP7500 Pentium 100MHZ is the most advanced, highest performance notebook available today. It's also more powerful than most desktops. The Pentium CPU has twice the performance of a 486 DX-2/66 and the capability to crunch more than 100 MIPS. Add to this a 256K cache and the unsurpassed performance of VESA Local Bus Video and Local Bus IDE, and this notebook will get you where you're going fast.

- 256K CACHE
- VESA LOCAL BUS VIDEO & LOCAL BUS IDE
- BUILT-IN AUDIO SYSTEM
- PENTIUM POWER

NP 9500

- Intel Pentium or Cyrix 486, 5x86 CPU
- 1MB Video RAM
- 32-bit VESA Local Bus Video with Windows Accelerator
- 32-bit Local Bus IDE
- 256KB Secondary Cache Memory
- 16-bit Stereo Audio with 2 Stereo Speakers and 1 Microphone
- 8MB RAM Expandable to 64MB
- Removable 540MB Hard Drive (810MB or 1.35GB Opt.)
- Removable 3.5" 1.44MB Floppy Drive
- Color VGA LCD Display Supports up to 640 x 480, 64K Colors; CRT: 1024 x 768, 256 Colors
- Simultaneous CRT & LCD Operation
- Integrated Pointing Device
- Advanced Power Management with SMM
- 2 PCMCIA Type I & II or 1 Type III Slot
- Super Long Life NiMH Battery
- 2 16C550 Compatible Serial Ports
- 1 Parallel Port with ECP/EPP Support
- Other Ports: Game, Ext. Keyboard, Ext. VGA Monitor & Ext. FDD
- Jacks - 1 line in, 1 line out & 1 Microphone
- 85-Key Keyboard
- Microsoft Windows 95
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- Weight 7.5lbs. with Battery
- 11.69"W x 9.00"D x 2.44"H
- Sager's Umbrella Protection Policy

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TV Tuner Module
Secondary Battery Module
3.5" Removable HDD Module
Car Adapter
Numeric Keypad
PCMCIA Cards

NP 8500

- 11.3" Dual Scan Color VGA Display
  CRT: 1024x768, 256 colors
- Cyrix 486 or 5x86 CPU
- 1MB Video RAM
- 32-bit VESA Local Bus Video with Windows Accelerator
- 16-bit Stereo Audio with 2 Stereo Speakers & 1 Microphone
- 4MB RAM Expandable to 20MB
- Removable 540MB Hard Drive (810MB or 1.35GB Optional)
- 3.5" 1.44MB Floppy Drive Replaceable with 2nd battery pack
- Simultaneous CRT & LCD Operation
- Integrated Pointing Device
- Intelligent Power Management w/ SMM
- 2 PCMCIA Type I & II or 1 Type III Slots
- Extra Long Life NiMH Battery
- 1 16C550 Compatible Serial Port
- 1 Parallel Port with ECP/EPP Support
- Other Ports: Ext. Keyboard, Ext.VGA Monitor & 200 Pin Connector for Docking Station
- Jacks - 1 line in & 1 line out
- 86-Key Keyboard
- Microsoft Windows 95
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Numeric keypad
Car Adapter
PCMCIA Cards
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NP 7500

Pentium:

- 256KB Secondary Cache
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- 1 Parallel Port with ECP/EPP Support
- Suspend to Hard Drive Feature
- Color VGA LCD Display Supports up to 640 x 480, 64K Colors

486:

- 4MB RAM Exp. to 36MB
- 1 Serial & 1 Parallel Port
- 1MB Video RAM
- 32-bit VESA Local Bus Video with Windows Accelerator
- 32-bit Local Bus IDE
- 16-bit Stereo Audio with 2 Stereo Speakers & 1 Microphone
- Removable 540MB Drive (810MB or 1.35GB Optional)
- 3.5" 1.44MB Floppy Drive
- 9.5" Mono, 10.3" Dual Scan or 10.2" Active Matrix VGA Display
- CRT: 1024x768, 256 Colors
- Simultaneous CRT & LCD Operation
- Large Built-In 19mm Trackball and Hand Rest
- Intel Upgradeable CPU
- Intelligent Power Management with SMM
- 2 PCMCIA Type I & II or 1 Type III Slot
- Super Long Life NiMH battery
- Other Ports: Ext. keyboard, Ext. VGA monitor, & 200 Pin Connector for Docking Station
- Jacks - 1 line in & 1 line out
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- Microsoft Windows 95
- Carrying Bag & AC/Adapter
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Docking Station
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Car Adapter
PCMCIA Cards
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NP9500 • NP8500 • NP7500

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PENTIUM-133	$2675	$2845

NP8500	11.3" COLOR DUAL SCAN
486DX4-100	$1795
5x86-100	$1875

NP7500	9.5" MONO	10.3" COLOR DUAL SCAN	10.2" COLOR ACTIVE MATRIX
486DX2-66	$1475	$1775	$2075
486DX4-100	$1525	$1825	$2125
PENTIUM-75		$2175	$2445
PENTIUM-90		$2275	$2545
PENTIUM-100		$2325	$2595

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Bravo 3/25s
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4MB 501168-001 $158 8MB 500824-001 $329
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1MB 500780-003 002 $45
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4MB 500780-004 $174
Advantage! 486/25, 33, 33p, SX20, Premium Server SE 4/33
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ProLiant 2000 and 4000 series, Systempro XL
16MB 149949-001 $709 32MB 149912-001 $1426
64MB 149913-001 $2436 128M 149914-001 $4595
ProLinea 3/25s, 3/25zs
2MB 141738-001 $89 8MB 141742-001 $304
Presario 600 and 800 series, ProLinea 4/25, 4/33, 4/50, 4/66
ProLinea MT and ProLinea Enhanced series, ProSignia VS
4MB 141684-001 $153
8MB 141685-001 $307

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1 x 9-70ns (1MB)...........$35.50	1 x 36-70ns (4MB).........$134
4 x 3-70ns (3-chip/4MB)..$123	2 x 36-70ns (8MB).........$289
4 x 9-70ns (4MB)...........$144	4 x 36-70ns (16MB).......$494

First Source International Always Includes Installation Instructions! (on standard simms)

DeskPro 386-20; 25, 386-20e, 25e
1MB 113131-001 $62 4MB 113132-001 $167
DeskPro 386s/16
4MB 112534-001 $194
4MB brd 113634-001 $287
DeskPro 3/25I, 33I, 4/25iS, 33I, 66I, 286N, 386N, SX/20; 20N, SystemPro LT and M Series
4MB 118690-001 $153
8MB 118877-001 $356
ProSignia PC Server 486/33, DX2/66
16MB 149320-001 $610
32MB 149147-001 $1152
DeskPro 386-33, 486-33, SystemPro and SystemPro E series
2MB 115144-001 $109
8MB 116561-001 $376

HEWLETT-PACKARD

Vectra VL2, XP, XU, M2, N2 and XM2 models
Netserver LM, LC and LF models
4MB D2974A $169 8MB D2975A $329
16MB D2297A $613 32MB D2298A $1,119
Vectra QS and RS models
4MB D1542 or 1642A $177
Vectra 486 M, MI, N, NI and XM models
2MB D2381A $95 8MB D2152A $305
4MB D2156A $151 16MB D2676A $611
Vectra 386/25, 486/25U, 33U, 33ST; 50U, 66U and 66ST
2MB D2381A $95 8MB D2152A $329
Vectra 386/33N, NI models
2MB D2714A $92 8MB D2715A $304

NEC

Image 425, 433, 466
4MB 410-12002 $199 16MB 410-12003 $569
Ready 425, 433
4MB n/a. $159 16MB n/a. $569
PowerMate 386/33i, Express Te, e models
4MB OP410-6205 $169 16MB OP410-6206 $613
PowerMate SX Plus
2MB Board n/a $163 4MB Board n/a. $278
PowerMate SX/20
2MB Upgrade OP-410-8101 $151
2MB Board OP-410-8102+8103 $171
PowerMate 386/20; 25
2MB APC-H655 $219 8MB APC-H656 $559
PowerMate 386/33E, 486/25E
2MB OP-410-5101 $171

IBM

Aptiva 300, 500 and 700 series
4MB n/a. $199 16MB n/a. $509
Eduquest 55
4MB 74G1299 $174
Eduquest 30 , 40 and 50 models
4MB 60G0896 $174 16MB 60G0898 $549
PS/1 286, 386SX
2MB 92F9935 $83 4MB 92F9694 $163
Valuepoint Performance models
4MB 92G9201 $169 8MB 92G7520 $329
PS/1 Consultant, Essential, Expert models x43, x44, PS/Valuepoint all models except Cxx models
4MB 96F9290 $177
16MB 96F9291 $609
PS/1 Consultant, Essential, Expert models
16MB 96F9291 $609
PS/2 25/286, 30/286
2MB 30F5360 $79
PS/2 35SX, LS, 40SX, 50Z, 55SX, LS, 65SX, LS, 70 XStation
2MB 6450604 $87
PS/2 70-A21, A61, B21, B61, PS/Valuepoint Cxx models
PS/1 Consultant, Essential, Expert models
2MB 6450608 $95
PS/2 35SX, LS, 40SX, 55SX, LS, 65SX, LS, XStation, PS/Valuepoint Cxx models
4MB 34F2933 or B7F9977 $179
PS/2 35SX, LS, 40SX, PS/Valuepoint
8MB 6450129 $329
PS/2 90 XP, 95 XP, P75 (pairs) 56, 57 (all) PS/1 Pro M2123
2MB 6450902 $85
PS/2 90 XP, 95 XP, P75 (pairs) 56, 57 (all models)
PS/1 Consultant, Essential, Expert models, PS/1 Pro M2123
4MB 6450128 $169 8MB 6450130 $329
PS/2 80-111, 311, 121, 321, 081, 161
2MB 6450379 $49
PS/2 80-A21, A31, A16
4MB 6451060 $186
Expansion boards for PS/2 80286 based models
4-16MB w/4MB 6450609 (use 72-pin) $299
Expansion boards for PS/2 80386 based models
2-14MB w/2MB 34F3077 $205
4-16MB w/4MB 34F3011 $299

LASER PRINTER MEMORY

Canon LBP-4
1MB n/a. $109 2MB n/a. $159
Canon LBP-8II, IIR, IIT
2MB S63 1880 $119
Epson ActionLaser 1000 1500
512K n/a $35 2MB n/a $99
Epson ActionLaser 1100
2MB n/a. $105 4MB n/a. $159
Epson ActionLaser 1600
4MB n/a. $159 16MB n/a. $609
HP LaserJet 4L
1MB C2024A. $48
HP LaserJet IIP, III, IIIP, IIID
2MB 33475B $95 4MB 33477B $169
HP LaserJet II, IID
2MB 33444B $95 4MB 33445B $169
HP LaserJet IIIsi, 4, 4M, 4Si, 4SiMX, XL300, DeskJet 1200c
1MB C2063A. $48 2MB C2064A. $94
4MB C2065A $174 8MB C2066A $339
HP LaserJet 4P, 4MP, Color LaserJet
2MB C3131A. $95 4MB C3132A. $179
HP DeskJet 500, 500C, 520, 520C, 550C, 560 560C
256K 22707B $40
HP DesignJet 5P, 5MP
4MB C3132A. $170 8MB C3133A $329
IBM/Lexmark Laser 4019 (all models)
2MB 1038675 $107 3.5MB 1039137 $167
IBM/Lexmark Laser 4029 (all models)
2MB 11B3334 $87 4MB 11B3335 $157
IBM/Lexmark Laser 4039, 4079 (all models)
4MB 1328363 $157 8MB 1328365 $319
OkiLaser 400
1MB 70014701 $69 2MB n/a $97
OkiLaser 400e, 410e
2MB n/a. $117 4MB n/a. $197
OkiLaser 830, 830 Plus, 840
2MB n/a. $124 4MB n/a. $209
Panasonic LaserPartner 4400, 5400
2MB KX-PEM1 $110 4MB KX-PEM2 $204
Panasonic LaserPartner 4410, 4430
2MB KX-P444 $115 4MB n/a. $196
Panasonic LaserPartner 4450i, 4420
2MB KX-P441 $116 4MB n/a. $187

16MB Module $699 TOSHIBA T1900, T4900 — While supplies last

LAPTOP & NOTEBOOK MEMORY

AST

Ascentia 800N, 810N: 4MB $189; 8MB $359; 16MB $699
Ascentia 900N, 910N: 4MB $192; 8MB $359; 16MB $699
Ascentia 950N (Special): 8MB $424; 16MB $739

COMPAQ

Compaq Elite: 4MB $189; 8MB $359; 16MB $699
Contura 410: 4MB $185; 8MB $359; 16MB $699
Contura 4/25: 4MB $179; 8MB $339; 16MB $659
Contura Aero: 4MB $185; 8MB $329; 16MB $659

Digital

Hi-Note: 4MB $179; 8MB $349; 16MB $619
Hi-Note Ultra: 4MB $179; 8MB $349; 16MB $619

IBM

ThinkPad 360: 4MB $189; 8MB $359; 16MB $599; 32MB $1,379
ThinkPad 701: 4MB $189; 8MB $379; 16MB $659
ThinkPad 730: 8MB $359
ThinkPad Power 820: MB CALL
ThinkPad Power 850: MB CALL
ThinkPad 755: 4MB $199; 8MB $389; 16MB $679; 32MB $1,379
ThinkPad 700, 720 and CL57SX (Special): 4MB $199; 8MB $339; 16MB $669; 32MB $1399
ThinkPad 710T: 4MB $179; 8MB $315
N51 Notebook: 4MB $179

WHY ADD MORE MEMORY?

Microsoft® Windows® 95

"Upgrade to 16MB of memory-- it is worth the investment"
-- Windows Sources Magazine, April 1995

"Memory has a bigger impact on Windows 95's performance than any other single component. If you don't have at least 16MB of RAM, prepare to upgrade"
-- Windows Sources Magazine, April 1995

NEC

Versa 2000: 4MB $189; 8MB $369; 16MB $639
Versa S: 4MB $179; 8MB $359; 16MB $619
Versa V, M, P / Versa 4000: 4MB $189; 8MB $399; 12MB $599; 16MB $619; 32MB $1,439

Texas Instruments

Extensa 450: 4MB CALL; 8MB CALL; 16MB CALL
Extensa 550: 8MB CALL; 16MB CALL; 32MB CALL
TravelMate 4000M, 4000E: 4MB $189; 16MB $799
TravelMate 5000: 8MB $499; 16MB $899

Toshiba

T2100, T2110, T2130, T2150, T2155, T2105 (Special): 4MB $172; 8MB $335; 16MB $679; 24MB $999
T1900, T4500, T4600, T4700, T4800, T4850, T4900: 4MB (3.3 V) $189; 8MB (3.3 V) $359; 16MB (3.3 V) $699; 32MB $1,379
T3400, T3600 (Special): 4MB $189; 8MB $349; 16MB $679
T610 Portege, T400: 8MB $541; 16MB $917; 32MB $1,735
T4400, T6400 (all models): 4MB $179; 8MB $339; 16MB $675

Zenith

Z-Note Flex: 4MB $179; 8MB $439; 16MB $599
Z-Star: 4MB $199; 16MB $699

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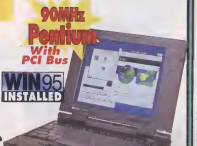
HP OmniBook 600 Notebook PC



HP OmniBook 5000 Notebook PC

HP OmniBook 600

- Weighs **ONLY 3.8 pounds!**
- Built-in 16-bit sound, microphone & speaker
- Built-in infrared for no-hassle printer connections
- Instant "ON" ready-to-work state – lasts for months on a charge

Processor	Screen	HD	Price
486DX4/75	8.5" Dual Scan	340MB	$2539
486DX4/75	9.5" Active	340MB	2999

HP OmniBook 5000

- Pentium 90MHz with 32-bit PCI Local bus
- 1.2GB drives available for high capacity storage
- High resolution – 800x600 resolution on notebook display
- Built-in 16-bit sound, microphone & speaker

Processor	Screen	HD	Price
Pentium 90	10.4" Active	1.2GB	$5579
Pentium 90	10.4" Active	1.2GB	6239*

*16MB RAM standard

Other Products from Hewlett-Packard

NEW!

HP DeskJet 340

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DeskJet 340

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HP LaserJet Printers

HP LaserJet 5P printer (18M, 6ppm, 600dpi)	$879.99
HP LaserJet 5L printer (18M, 4ppm, 600dpi)	479.00

HP InkJet Printers

HP DeskJet 340 printer (portable)	$289.99
HP DeskJet 600 printer	289.99
HP DeskJet 600C printer	299.00
HP DeskJet 660C printer	389.99
HP DeskJet 660Cse printer	399.00
HP DeskJet 855C printer	549.00
HP DeskJet 1600C printer	1349.99

Home Office Products

HP OfficeJet	$599.99
HP OfficeJet LX	689.99
HP FAX-700	549.99

HP Scanners

HP ScanJet 4S (portable)	$369.99
HP ScanJet 4C (color)	949.99

HP (Colorado) Tape Drives

Trakker 350MB (portable)	$219.99
Jumbo 350MB (internal)	119.99
Jumbo 1400, 1.36GB (internal)	229.99
T1000, 800MB (internal)	179.99
T1000e, 800MB (portable)	299.99

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ThinkPad® 701

- Amazing pop-up, full-sized keyboard w/ jigsaw design
- 10.4" Active & Dual Scan
- Only 4.5 lbs. in subnotebook form factor
- 14.4 fax/modem, speaker phone, answering machine & voice mail
- Built-in 16-bit sound, microphone, speaker & MIDI
- Built-in infrared for no-hassle printer connections
- 20 **FREE** software titles preinstalled

Processor	Screen	HD	Price
486DX2/50	10.4" Active	360MB	$2199
486DX2/50	10.4" Active	540MB	2399
486DX4/75	10.4" Dual Scan	360MB	2649
486DX4/75	10.4" Dual Scan	540MB	2949
486DX4/75	10.4" Active	360MB	3219
486DX4/75	10.4" Active	540MB	3499
486DX4/75	10.4" Dual Scan	720MB	3299
486DX4/75	10.4" Active	720MB	3879

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ThinkPad 755 Pentium Models Available.

ThinkPad 760™

ThinkPad® 760

- Pentium 90 & 1200thz with 32-bit local bus
- 12.1" active displays with 800x600 resolution (selected models)
- 4X CD-ROM Drive, MPEG-2 support, & full motion video (ThinkPad760CD only *)
- Built-in 28.8 fax/modem
- SoundBlaster-compatible audio & telephony
- Lithium Ion battery technology

Processor	Screen	HD	Price
Pentium 90	10.4" Active	720MB	$5349
Pentium 90	12.1" Active	720MB	6049
Pentium 120	12.1" Active	720MB	6599
Pentium 90	12.1" Active	1.2GB	7449*

*Features built-in CD-ROM drive

Aptiva™

Aptiva® Multimedia

- Quad Speed CD-ROM Drive
- 16-bit stereo sound - SoundBlaster Compatible
- Advanced Telephony - 28.8 fax/modem, full duplex speaker phone, answering machine & voice mail
- 50 Watt stereo speakers
- Built-in MPEG support for full screen, full motion video
- Over 40 **FREE** software titles

Chassis	Processor	HD	Price
Minitower	Pentium 75	1GB	$1899
Minitower	Pentium 100	1.6GB	2399
Minitower	Pentium 100	1.6GB	2599*
Minitower	Pentium 120	1.6GB	2599
Minitower	Pentium 133	1.6GB	2999*

*16MB RAM standard

Monitors priced separately

ThinkPad 365CD™

ThinkPad® 365

- Built-in CD-ROM Drive (only on selected models)
- Built-in audio, speaker, MIDI/joystick port (available on all models except 365CS)
- 10.4" Active (64K colors) & 10.4" Dual Scan
- Built-in infrared for no-hassle printer connections
- LOADs of **FREE** software preinstalled

Processor	Screen	HD	Price
486DX4/75	10.4" Dual Scan	340MB	CALL†
486DX4/75	10.4" Dual Scan	540MB	CALL†
486DX4/75	10.4" Active	540MB	CALL
486DX4/75	10.4" Dual Scan	540MB	CALL*
486DX4/75	10.4" Active	540MB	CALL*

*Features built-in CD-ROM drive

† Built-in audio, speaker, MIDI/joystick port not standard

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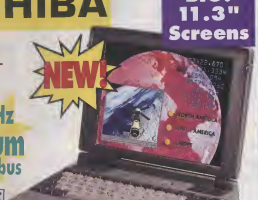


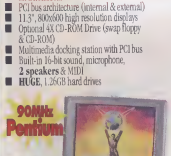
Tecra 700

- Pentium 120MHz processor – fastest available on a notebook!
- PCI bus architecture (internal & external)
- 11.3", 800x600 high resolution display
- Optional 4X CD-ROM Drive (swap Floppy & CD-ROM)
- Multimedia docking station with PCI bus
- Built-in 16-bit sound, microphone, **2 speakers** & MIDI
- **HUGE**, 1.2GB hard drives

Processor	Screen	HD	Price
Pentium 120	11.3" Dual Scan	1.2GB	CALL
Pentium 120	11.3" Active	1.2GB	CALL

90MHz Pentium

WIN95 INSTALLED



Portégé 610CT

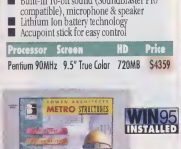
Portégé 610CT

- Pentium 90MHz processor
- 9.5" True Color display for optimum color
- Built-in 16-bit sound (SoundBlaster Pro compatible), microphone & speaker
- Lithium Ion battery technology
- Accupoint stick for easy control

Processor	Screen	HD	Price
Pentium 90MHz	9.5" True Color	720MB	$4359

Satellite Pro 400 & Satellite Pro 410

- Built-in 4X CD-ROM Drive (Swap Floppy & CD-ROM) (Active models only – optional on Dual Scan)
- Built-in 16-bit sound, microphone, speaker & MIDI
- EDO RAM memory, exp. to 40MB (Std. Pro 410 only)
- Built-in AC adapter - small, sleek design & reduced weight
- Integrated Accupoint - small, accurate & easy to use
- Lithium Ion battery technology
- Built-in infrared for wireless communications



Satellite Pro 400

WIN95 INSTALLED

Satellite Pro 400

Processor	Screen	HD	Price
Pentium 75	10.4" Dual Scan	772MB	$3539
Pentium 75	10.4" Active	772MB	4359

Satellite Pro 410

Processor	Screen	HD	Price
Pentium 90	11.3" Dual Scan	772MB	CALL
Pentium 90	11.3" Active	772MB	CALL

Satellite 2110/2130

Processor	Screen	HD	Price
486DX4/75	10.4" Dual Scan	330MB	$1979
486DX4/75	10.4" Dual Scan	500MB	2459
486DX4/75	10.4" Active	500MB	3059

COMPAQ

Contura 420/430
Product differs slightly from photo.

WIN95 INSTALLED

Contura 420/430

- 10.4" Active & Dual Scan
- Fast 486DX4/75 or 486DX4/100 processors
- Optical trackball – smoother & more reliable
- High capacity drives – up to 720MB
- Compaq, 3-year worldwide warranty

Processor	Screen	HD	Price
486DX4/75	10.4" Dual Scan	500MB	$2459
486DX4/75	10.4" Active	420MB	3029
486DX4/100	10.4" Dual Scan	720MB	2839
486DX4/100	10.4" Active	720MB	3499

WIN95 INSTALLED

ProLinea

- Blazing Pentium speed - up to 133MHz Pentium
- BIGGER hard drives – up to 1GB
- PCI Local bus – high-speed graphics
- PCI IDE controller – fast disk performance
- Multiple chassis sizes – get the expansion you need
- Compaq, 3-year worldwide warranty w/ 1st year on-site

Chassis	Processor	HD	Price
Desktop	486DX2/66	630MB	$1269
Desktop	Pentium 75	630MB	1589
Desktop	Pentium 75	1GB	2069
Desktop	Pentium 90	630MB	1829
Desktop	Pentium 90	1GB	2319
Minitower	Pentium 75	630MB	1609
Minitower	Pentium 75	1GB	2129
Minitower	Pentium 100	1GB	2399
Minitower	Pentium 133	1GB	3139

Monitors priced separately

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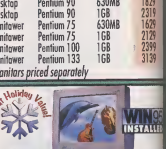

WIN95 INSTALLED

950N

- 90MHz Pentium - for blazing performance
- 10.4" Active & Dual Scan
- High Res displays - 800x600 res. on notebook
- Built-in 16-bit sound, microphone & speaker
- Lithium Ion battery technology
- Built-in infrared for no-hassle printer connections

Processor	Screen	HD	Price
Pentium 75	10.4" Dual Scan	500MB	$2639
Pentium 75	10.4" Dual Scan	800MB	2879
Pentium 75	10.4" Dual Scan	1.2GB	3249
Pentium 75	10.4" Active	800MB	3799
Pentium 75	10.4" Active	1.2GB	4199
Pentium 90	10.4" Dual Scan	800MB	3259
Pentium 90	10.4" Dual Scan	1.26GB	3639
Pentium 90	10.4" Active	800MB	4199
Pentium 90	10.4" Active	1.26GB	4579

Advantage Adventure Desktop

Advantage Adventure Multimedia

(4X CD-ROM) NEW for Windows 95

- Quad Speed CD-ROM Drive
- Advanced Telephony – 14.4 or 28.8 fax/modem, telephone answering system, and speaker phone (Differs by model. Call for details).
- Integrated 3-D surround sound system
- Loads of FREE software pre-installed.
- Windows 95 keyboard for increased productivity
- AST Works II integration software: featuring "SPOT"
- Intel P6 Overdrive processor upgradable

Chassis	Processor	HD	Price
Desktop (614)	Pentium 100	850MB	$1869
Minitower (812)	Pentium 100	1.2GB	2089
Minitower (814)	Pentium 100	1.2GB	2379*
Minitower (818)	Pentium 133	1.6GB	2969*

Monitors priced separately *16MB RAM standard

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- Pentium 133 - fastest Pentium available!
- PCI local bus – high speed graphics
- Unbelievable sound - Soundblaster Pro-compatible, SW WaveTable, Premium BL speaker system
- Advanced Telephony - 14.4 fax/modem, full duplex speaker phone & answering machine
- Loads of **FREE** software preinstalled

Chassis	Processor	HD	Price
Minitower (910)	Pentium 75	850MB	$1749
Minitower (915)	Pentium 100	850MB	1999
Minitower (920)	Pentium 75	1.2GB	2199
Minitower (930)	Pentium 100	1.2GB	2499
Minitower (940)	Pentium 133	1.2GB	2999

Monitors priced separately

HiNote Ultra shown with Mobile Multimedia Station

HiNote Ultra

- All models 4 lbs. or less - **ONLY 1.1" thick**
- Built-in sound, microphone & speaker
- Lithium Ion battery technology
- Built-in infrared
- 3-year warranty - **FREE** 1-year Passport Service
- **NEW Mobile Multimedia Option now available**

Processor	Screen	HD	Price
486DX2/50	9.5" Dual Scan	340MB	$2549
486DX2/50	9.5" Active	340MB	3079
486DX4/75	9.5" Dual Scan	528MB	3079
486DX4/75	9.5" Active	340MB	3519
486DX4/75	9.5" Active	528MB	3639

TEXAS INSTRUMENTS

Extensa 550CD

Extensa 550/550CD

- 75MHz Pentium w/PCI bus & 256KB cache
- Built-in 2X CD-ROM drive (optional on some models)
- Built-in 16-bit sound, microphone & speaker
- Integrated touch pad pointer
- 10.4" Active Matrix display/10.4" Dual Scan
- Built-in infrared for wireless communications

Processor	Screen	HD	Price
Pentium 75	10.4" Dual Scan	524MB	$2499*
Pentium 75	10.4" Dual Scan	524MB	2939
Pentium 75	10.4" Active	524MB	3519

*2x ROM Drive is an optional accessory on this model

Extensa 450

- 10.4" Dual Scan & 9.5" Active display
- Glide Pad pointing device
- Advanced battery pro
- Built-in infrared for no-hassle printer connections

Processor	Screen	HD	Price
486DX4/75	10.4" Dual Scan	340MB	$1769
486DX4/75	9.5" Active	340MB	2349

TravelMate 5000/5100

75MHz or 90MHz Pentium with PCI Bus to optimize Pentium processor performance

- 10.4" Active Matrix display with 2MB Video RAM
- 10.5" Dual Scan display with 2MB Video RAM
- 65K colors on notebook display
- 16-bit Sound Card, Speaker, Microphone & MIDI
- Upgradable hard drive - easily add more storage
- Built-In Dual Lithium Ion batteries
- Built-in infrared for no-hassle printer connections

Processor	Screen	HD	Price
Pentium 75	10.4" Dual Scan	500MB	$3479
Pentium 75	10.4" Active	772MB	3999
Pentium 90	10.4" Active	1.2GB	4799

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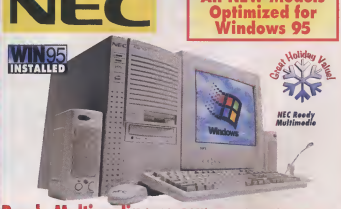

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- 32-bit PCI IDE controller – fast disk performance
- LOADS of **FREE** software

Chassis	Processor	HD	Price
Minitower	Pentium 75	1GB	$1899
Minitower	Pentium 100	1GB	2299
Minitower	Pentium 100	1.6GB	2699
Minitower	Pentium 120	1.6GB	2999
Minitower	Pentium 133	1.6GB	3299

Monitors priced separately

Versa 2000

Versa 2000

- Lithium Ion battery technology
- VersaGlide touch-pad pointer – simple & accurate
- Built-in, upgradable 14.4 fax/modem (on selected models)
- LOADS of **FREE** software preinstalled

Processor	Screen	HD	Price
486DX4/75	9.5" Active	350MB	$2299*
486DX4/75	9.5" Active	350MB	2599
486DX4/75	9.5" Active	540MB	2799

*14.4 fax/modem not built-in

Versa 4000

NEC Versa 4000

- Built-in CD-ROM Drive! (Standard on some models, optional on others)
- Pentium 75 and Pentium 90 processors
- 256KB Level 2 Cache to optimize performance
- Unbelievable displays – 9.5K color Dual Scan, 16.8 million color Active (high resolution Active Matrix displays available – 800x600 res.)
- Built-in 16-bit sound, microphone, MIDI and **2 built-in speakers**
- Multimedia docking station with outstanding Altec Lansing 4 speaker array (optional accessory, priced separately)

Processor	Screen	HD	Price
Pentium 75	10.4" Dual Scan	540MB	$3499
Pentium 75	10.4" Dual Scan	540MB	3799*
Pentium 75	10.1" Active	540MB	3999
Pentium 90	10.1" Active	810MB	4499*
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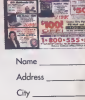

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Please answer questions below:

1. **Where do you use your computer?** (Check one only):
   1. ☐ Home 2. ☐ Business 3. ☐ Both
2. **What kinds of computers do you use?** (Check all that apply):
   1. ☐ IBM/Compatible Laptop 2. ☐ IBM/Compatible Desktop 3. ☐ MAC
3. **Do you plan to buy any of the hardware or software mentioned below in the next three months?** (Check all that apply):

HARDWARE
1. ☐ PC
2. ☐ MAC
3. ☐ Laptop
4. ☐ Printer
5. ☐ Monitor
6. ☐ Disk/Tape Back-up
7. ☐ Add-in Board
8. ☐ Modem
9. ☐ Input Device
10. ☐ Local Area Network
11. ☐ Windows

SOFTWARE
12. ☐ Accounting
13. ☐ Spreadsheet
14. ☐ Personal Finance
15. ☐ Desktop Publishing
16. ☐ Word Processor
17. ☐ Database Manager
18. ☐ Graphics
19. ☐ Utility
20. ☐ Communications
21. ☐ Windows/Multi-tasking
22. ☐ Programming Language/ Compiler
23. ☐ Integrated/Multifunction
24. ☐ CAD
25. ☐ CD-ROM
26. ☐ On-Line Services

4. **From which of the following sources do you purchase personal computer products?** (Check all that apply):
   1. ☐ Specialty Computer Retail Stores
   2. ☐ Mail Order Firms
   3. ☐ Direct from Manufacturers
   4. ☐ Other

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PCC 12/95-4

Title

Telephone

Company Name

Address

City

State

Zip

5. ☐ Please send me a one-year (12 issue) subscription to PC/Computing for $16.97 (U.S. price); all other countries add $16.00 for additional postage

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   1. ☐ Home 2. ☐ Business 3 ☐ Both
2. **What kinds of computers do you use?** (Check all that apply).
   1. ☐ IBM/Compatible Laptop 2 ☐ IBM/Compatible Desktop 3. ☐ MAC
3. **Do you plan to buy any of the hardware or software mentioned below in the next three months?** (Check all that apply)

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2. ☐ MAC
3. ☐ Laptop
4. ☐ Printer
5. ☐ Monitor
6. ☐ Disk/Tape Back-up
7. ☐ Add-in Board
8. ☐ Modem
9. ☐ Input Device
10. ☐ Local Area Network
11. ☐ Windows

SOFTWARE
12. ☐ Accounting
13. ☐ Spreadsheet
14. ☐ Personal Finance
15. ☐ Desktop Publishing
16. ☐ Word Processor
17. ☐ Database Manager
18. ☐ Graphics
19. ☐ Utility
20. ☐ Communications
21. ☐ Windows/Multi-tasking
22. ☐ Programming Language/Compiler
23. ☐ Integrated/Multifunction
24. ☐ CAD
25. ☐ CD-ROM
26. ☐ On-Line Services

4. **From which of the following sources do you purchase personal computer products?** (Check all that apply):
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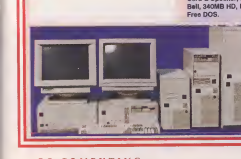

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256 X 1 (DIP)			1 95	1 65
1MB X 4 (ZIP PK)	24 00	22 00	21 00	
256 X 4 (PAGE ZIP)	9 25	9 00	8 95	

WORKSTATION MEMORY

SUN MICROSYSTEMS	CALL
SILICON GRAPHICS	CALL
IBM RISC	CALL

30-PIN SIMMS

1X3-60	$41
1X3-70	37
1X9-60	43
1X9-70	41
1X9-80	39
1X8-70	38
1X9-100	33
4X9-70	145
4X9-60	147
4X9-80	139
4X8-70	142

72-PIN SIMMS

256X36-70	(1MB)	$55
512X36-70	(2MB)	92
1X36-70	(4MB)	146
1X36-60	(4MB)	155
2X36-70	(8MB)	295
2X36-60	(8MB)	305
4X36-70	(16MB)	545
4X36-60	(16MB)	559
8X36-70	(32MB)	CALL
8X36-60	(32MB)	CALL
16X36-70	(64MB)	CALL
16X36-60	(64MB)	CALL

72-PIN NON-PARITY

1X32-70	(4MB)	142
1X32-60	(4MB)	155
2X32-70	(8MB)	285
2X32-60	(8MB)	305
4X32-70	(16MB)	509
4X32-60	(16MB)	515
8X32-70	(32MB)	CALL
8X32-60	(32MB)	CALL
16X32-70	(64MB)	CALL
16X32-60	(64MB)	CALL

EDO MEMORY

1X32-70	(4MB EDO)	155
1X32-60	(4MB EDO)	159
[illegible]	(8MB EDO)	309
[illegible]	[illegible]	319
[illegible]70	[illegible]	649
[illegible]2-60	(16MB EDO)	[illegible]
[illegible]70	(32MB EDO)	CALL
[illegible]60	(32MB EDO)	CALL

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MATH CO-PROCESSOR
DX-40 65 SX33 65 SX-25 49

CYRIX DRX2 386 - 486 UPGRADE
25/50 219 33/66 229 25/50 229

MEMORY EXPANSION BOARDS

AST CUPID 0 MEG 500818-001	169
RAMPAT 16 BIT ISA BOARD	115

VIDEO UPGRADES

256 X 8 70	SOJ	21
256 X 16 - 70	SOJ	29
256 X 16 - 70	ZIP	45
254 X 4 70	VIDEO ZIP	12 95

FAX MODEM TYPE-II

14 4/28 8 279 14 4/14 4 109 9600/2400 69

NOTEBOOK MEMORY

ACERNOTE	4MB	8MB	16MB	32MB
750, 750C	195	379	675	
730/C 735/C, 760/C	189	339		
760CX, 780CX	195	379		
782C, 784, 786C, 787	195	379	649	
ALTIMA	**2MB**	**4MB**	**16MB**	**32MB**
VIRAGE		195	675	
LSX 139	205			
NB486		205	675	
AMBRA	**4MB**	**8MB**	**16MB**	**20MB**
NC 425SL	205	349		
N100	205	389	675	CALL
SN SERIES	205		675	
APPLE	**4MB**	**6MB**	**16MB**	**32MB**
190, 5300		369	645	1295
520/C, 540/C	185	349	599	1295
140, 145B, 170, 180 160, 165, 180C, 165C	175	299	349 (10MB)	
AST	**6MB**	**8MB**	**16MB**	**32MB**
POWEREXEC. 486SL/33, 425L/COLOR/+	189		625	
425L SPECIAL EDITION	189		625	
BRAVO NB/EXPLORER	189		609	
ASCENTIA 900, 910N	195	379	649	
ASCENTIA 950		405	649	
ASCENTIA 600, 810/N	195	379	625	
PEN EXEC 2MB	129		4MB 209	
AT&T	**4MB**	**6MB**	**16MB**	**32MB**
AT&T SAFARI 3181	195	379	789	
AT&T SAFARI 3151	229			
GLOBALYST 130	189	379	619	
GLOBALYST 200S	205	389	679	
GLOBALYST 250P	205	389	719	
REMOVABLE HARD DRIVES 250, 250P (540MB) 859 (810MB) 1033 (1 3GB) 1349				
AUSTIN NOTEBOOK	**4MB**	**8MB**	**16MB**	**32MB**
DX4/DX2/SX2/SX	205		675	
VISTA 195	379	619 (20MB 789)		
CANON	**8MB**	**6MB**	**16MB**	**32MB**
NOTEJET 486C (BN100)	195	379		
NOTEJET 486 (BN22)	195	379		
NOTEJET II (BN32)	195	379		
INNOVABOOK 10C SUB	195		675	
INNOVABOOK 150C	195		629	
INNOVA 200LS 195	379	619 (20MB 789)		
INNOVA 486HX	205	379		
COMPAQ	**4MB**	**6MB**	**14MB**	
CONCERTO 425/433	189	369	629	
CONTURA 4/25,C,CX	195	359	629	
CONTURA 400C, 400CX	189	379	619	
CONTURA 410C, 410CX	189	379	619	
CONTURA 420C, 430C	189	379	619	
CONTURA AERO 4/33C	189	319	619	
LTE ELITE 4/25/C, 4/75/C/CXL	195	379	695	
COMPU-ADD	**4MB**	**6MB**	**16MB**	**32MB**
TX 486 SERIES	205		675	
DEC PC	**6MB**	**6MB**	**16MB**	**32MB**
425SE, SE COLOR	205		595	
433SE, SE COLOR	205		595	
425SL PREMIUM	205		609	
433SLC PREMIUM	205		609	
HI-NOTE	189	379	649	
ULTRA	195	379	649	

Apple IBM AST NEC

DELL	2MB	4MB	8MB	14MB
325N 325NC	109			
NL20, NL25	99			
320SLI, 325SLI	104	219	395	
320N+	109	219		
212N, 320N	109			
LATITUDE 433/C, CX, 425		195		639
LATITUDE XP 4100CX 450C/CX, 475CX,		195		649
LATITUDE M, XM, MC, MCX		195	389	629
EPSON	**4MB**	**6MB**	**16MB**	**32MB**
ACTION NOTE 500C	195			
ACTION NOTE 650,660/C	195	379	629	
ACTION NOTE 700	195		619	
ACTION NOTE 866/C 880CX 880C	195	379	629	
ACTION NOTE 4000		309 (6MB)		
4SLC/25, 33, 4LC2/50		309 (6MB)		
NB3S	209			
NBSL 20/25/25C	209	349		
EVEREX	**4MB**		**16MB**	**32MB**
STEP NOTE	189		619	
GATEWAY	**4MB**	**8MB**	**16MB**	**32MB**
COLORBOOK	195		699	
HANDBOOK	195		649	
LIBERTY	195	389	649	
NOMAD/NOMAD N	195		849	
HEWLETT PACKARD	**6MB**	**8MB**	**16MB**	**32MB**
200LX PALMTOP PC MEMORY & FAX/MODEM	(2MB 309)	(4MB 419)		
OMNIBOOK 600/C	205	379		
OMNIBOOK 4000/C/CT	195	379	629	
IBM	**4MB**	**8MB**	**16MB**	**32MB**
CL57LSX	195	379		
PS/NOTE 2618	195	349	585	
PS/NOTE 182, N82, L40SX	209	349		
THINKPAD 340	185	329	609	
THINKPAD 350, 350C	195	349	585	CALL
THINKPAD 355, 355C	185	329	609	
THINKPAD 360/C/CS/P	185	329	609	
THINKPAD 510/CS	195	389	695	
THINKPAD 500	195	389		
THINKPAD 700/C, 720/C	195	369		
THINKPAD 701	205	389	649	
THINKPAD 710T	209	349		
THINKPAD 730T	195	369	649	
THINKPAD 750/C/CS/P	189	349	669	
THINKPAD 755C DX2/4 195		369	669	
755CS DX2/4	195	369	669	
IBM REMOVABLE HARD DRIVES TP 355, 360, 750, 755 (540MB) 829 (810MB) 929 (1 3GB) 1165				
LEXMARK	**4MB**	**6MB**	**16MB**	**32MB**
GS SERIES	195	369		
SE10	195	389		
MIDWEST MICRO	**6MB**	**6MB**	**16MB**	**32MB**
ELITE SOUND BOOK	195	379	619	
NEC	**6MB**	**8MB**	**16MB**	**32MB**
VERSA E/M/V/P 3 3	195	369	629	1289
VERSA S	195	369	649	
VERSA 2000	195	369	629	
NEC REMOVABLE HARD DRIVES VERSA E/M/VP (540MB) 859 (810MB) 1033 (1 3GB) 1349				
PACKARD BELL	**2MB**	**6MB**	**16MB**	**32MB**
STATESMAN/PLUS	105	359		
SAGER	**6MB**	**8MB**	**16MB**	**32MB**
3600		395	695	1295
6500	209		695	
7500	209	395	695	1295
9500	189	379	619	

SAMSUNG	2MB	4MB	6MB	
NOTEMASTER 16/25	119	219	339	
NOTEMASTER S3954T		205	409	
SENS 700	119	219	339	
SHARP	**4MB**	**8MB**	**16MB**	**32MB**
3010 3050	189	369	619	
7700/7750/8150	195		629	
8650/8660	195		629	
8700	195	389	629	
8800,8900	195	389	629	
ZAURUS PALMTOP	159	279		
T.I.	**6MB**	**4MB**	**16MB**	**32MB**
TI 4000E	195		765	
TI 4000M	195		765	
TI 3000 (2MG)	99			
TI 2000 (1MG)	79			
TI 5000 (NEW)		405	799	
TOSHIBA	**4MB**	**8MB**	**16MB**	**32MB**
T1950/1900/ T1900 CT/1960	195	379	695	1365
14400/4500/4700 4800/4900 (NEW)	195	379	695	1365
T6400/6600	195	389	745	1395
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T2000SXE	195	339		
T2100, T2150CDS/CDT	195	379	695	
PROTEGE 3400	189	369	649	
T2400/3600	189	369	649	
T2450CT	195	389	695	
TWINHEAD	**4MB**	**8MB**	**16MB**	**32MB**
SLIMNOTE E 486DX	205		649	
SLIMNOTE 1/S SERIES	205		649	
ZENITH	**4MB**	**8MB**	**16MB**	**32MB**
Z-STAR 433VL (2MB 109)		359		
Z-STAR EX	195		649	
Z-NOTE	205	379	679	
Z-NOTE FLEX	195	379	649	
ZEOS	**4MB**	**6MB**	**16MB**	**32MB**
COLORNOTE 486	209		689	
FREESTYLE 486	219		689	
POCKET PC	CALL		CALL	

PRINTER MEMORY

BROTHER	1MB	2MB	3MB	4MB
HL-8D/8E/8V	109	149	189	239
HL 10V/10DV/10PS		139	229	
HL-4/4PS/4V/4VE		139	229	
HL-6T		149		239
HL-630/631/641/645	99		139 (1 5MB)	
HL-660			309 (8MB)	
LASER/FAX MFC 3900ML 4000ML/4500ML/5000ML LASER UPGRADE	99		139 (1 5MB)	
CANON	**1MB**	**2MB**	**6MB**	**4MB**
LBP 430/860 CALL				155
LBP 4SX		139	219	
LBP 811/8/T		105		159
LBP-8SX	109	149	189	239
LBP-4/LITE PLUS	129	195		
C.ITOH/C-TECH	**1MB**	**2MB**	**3MB**	**4MB**
CI-4/4+/8E	75	105		
CI-6	149		205	
EPSON ACTION LASER	**1MB**	**2MB**	**4MB**	**5MB**
1500, 1000		109		
5000, 5200		109	218	
ACTION LASER II	89	139		319
EPL 6000		139	209	
EPL 7000	99	149	209	

EPSON	4MB	4MB	16MB	32MB
1100(4MB ONLY)/1600	155	305	519	1045
HP	**2MB**	**4MB**	**8MB**	
HP 4, 4M, 4SI	89	159	339	
HP 4		(POSTSCRIPT 279)		
HP 4P 4MP, HP4V5P	89	155	305	
HP4L, ML (1MEG ONLY) $55				
HP 5L		195	339	
HP550,C, 560,C (256K ONLY) $45				
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HPIII,IIIP, IIP	95	159		
PAINTJET XL300		239	409	
IBM	**1MB**	**2MB**	**3.5MB**	**8MB**
4019		149	209	
4029/4037		109	205	
4039/4079				159
KONICA	**1MB**	**2MB**	**6MB**	
LP 3110	129	175	219	
LEXMARK	**4MB**	**4MB**	**16MB**	
OPTRA L/LX/LXI/R/RX	155	305	529	
MANNESMAN TALLEY	**1MB**	**2MB**	**6MB**	**6MB**
MT 904/904+	75	139		
MT 905		139		205
NEC2MB 190/290	135			
95/97/97FX	109			
OKI	**2MB**	**4MB**	**8MB**	
OKI 400	105			
OKI 400E/410E	119	199		
OKI 810/830/840/850	105	209		
PANASONIC	**2MB**	**4MB**	**6MB**	
KX 4410/4430	109	179		
KX 4420/4450I	139	219		
KX 4400/5400/4401	125	204		
KX 4440/5410	149	249		
KX-P 4455		105 (1MB)		
SP100	125			
SHARP	**1MB**	**1.5MB**	**2.5MB**	**4MB**
JX9500/E/H/9700/H	119	149	205	305
JX9400/9600/9660/ 9700E/9460	105		(2MB 139)	239
JX9500PS	69			205
TANDY	**1MB**	**2MB**	**3MB**	**6MB**
LP-400/410	75	139		
TI	**1MB**	**2MB**	**3MB**	**4MB**
MICROLASER SERIES	69	105	149	205
MICROLASER TURBO				205
MICROWRITER SERIES	85	129		

CACHE UPGRADES

	15NS	20NS	25NS
8 X 8 - DIPP	5 95		
32 X 8 DIPP	8 50	8.25	8 00
64 X 1 - DIPP	15 00		
64 X 4 - DIPP	11 00	9 00	8 00
64 X 8 - DIPP	18 00		
128 X 8 DIPP	29 00	28.00	27 00
32 X 8 SOJ	CALL		

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128K	55	4MB	155
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7850 850 MB........ $173
71050 1.05 GB........ $235
71260 1.26 GB........ $299

Western Digital
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Super Micro

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American Digicom

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Promise 2300+........ $55

CPU'S

Intel

486 DX4-100........ $179
486 DX2-66........ $111
486 DX-33........ $69
Pentium 60........ $189
Pentium 66........ $199
Pentium 90........ $259
Pentium 100........ $299
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486DX2-66........ $99
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4420, 4450i
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4 x 32 - 70....$489	16 x 9 - 70......$505
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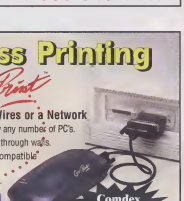

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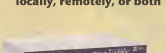

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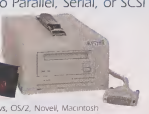

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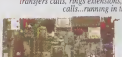

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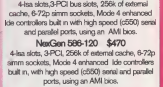

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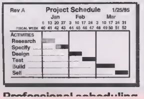

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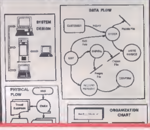

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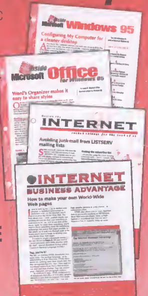

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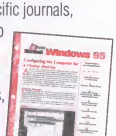

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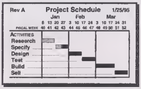

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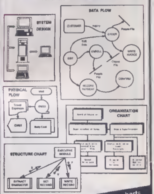

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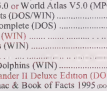

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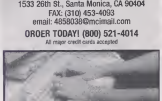

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This holiday season, it's time for an upgrade.

Computer Shopper presents a special Buying Guide filled with gift ideas for everyone on your list. Different from the monthly issues of Computer Shopper, the Guide comes complete with buying tips, fax forms, product feature charts, and tips on what to look for *before* you buy this holiday season.

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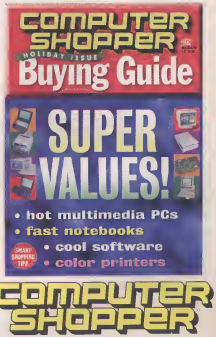

The MultiPASS™ 1000 Document Processing System combines a laser-quality printer, a plain paper fax, a PC fax, a scanner, a personal copier and a telephone — all in one compact unit. MultiPASS Desktop Manager for Windows® software is included to manage printing, faxing, scanning and telephone functions. Plus you can print and fax from the Windows applications you're using now. MultiPASS is everything you need next to your PC. Everything.

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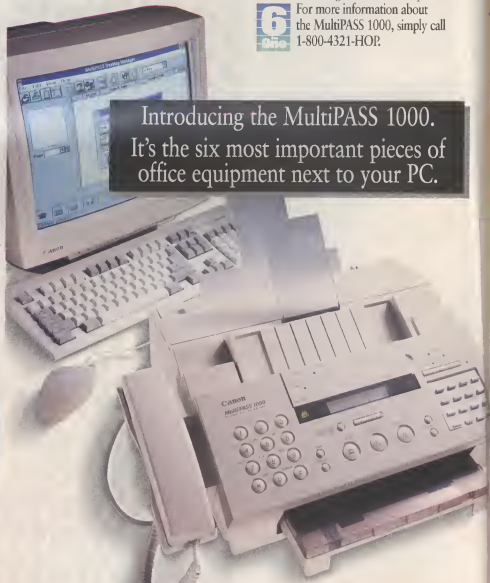
It's a PC Fax. With the MultiPASS 1000, you can fax directly from your PC at a speed faster than most faxboards. You can receive faxes while you're printing or when your PC is off. You can view faxes with zoom and full rotation, then save, print, forward or delete them. You can create a custom cover sheet and a virtually unlimited fax address book.

It's a Scanner. The MultiPASS 1000 offers TWAIN-compliant scanning with 200 x 200 dpi resolution and seven-level contrast control. It is compatible with most OCR software, enabling you to edit imported text without keying it in. And the 30-sheet auto document feeder lets you easily scan multi-page documents.

It's a Copier. You can make up to 99 laser-quality plain paper copies. The automatic document feeder holds 30 sheets and the front-loading, adjustable paper cassette holds 200 letter- or legal-size sheets. Canon's exclusive UHQ technology produces excellent copies of fine text and graphics.

It's a full-featured Telephone. The MultiPASS 1000 telephone has on-hook dialing. You get a virtually unlimited telephone address book for point-and-click dialing, plus coded speed dialing to 80 locations. It has a Distinctive Ring Pattern Detector for use with special telephone company services. Plus it has a hold button with melody and an answering machine hookup.

For more information about the MultiPASS 1000, simply call 1-800-4321-HOP.



*Based on CCITT #1 Chart (Standard Mode). Canon is a registered trademark and MultiPASS, Bubble Jet and UHQ are trademarks of Canon Inc. IBM is a registered trademark of International Business Machines Corporation. EPSON is a registered trademark of Seiko Epson Corporation. Windows and Windows 95 are registered trademarks of Microsoft Corporation. Canon computer not included.

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Supra Simple Internet / Supra Corp. / (800) 727-6772 / $180 to $210 est. street price / *Reader Service No. 879*

PHOTOGRAPHS BY STEVEN UNDERWOOD

'Tis the Season

Holiday Survival 95

Grab the Family Getting through the holidays is a breeze if you arm yourself with the right tools. Start by snazzing up your holiday newsletter with video images courtesy of the Snappy Video Snapshot frame grabber from Play ($200 est. street price; 800-306-7529). It captures high-resolution still images from any standard video source, like your camcorder or VCR. . . . **Stocking Market** Still looking for a few good stocking stuffers? Here's one for the neighbor who thinks of you as his or her own personal tech-support line. The Microsoft Windows 95 Video Guide is a slick, 45-minute video from GT Interactive that features Matthew Perry and Jennifer Aniston of the hit sitcom *Friends* ($20 est. street price; 800-610-4847). And if you've ever struggled cramming too many peripherals with power transformers into a conventional power strip, you'll love Woods's Workstation surge suppressor, which makes room for a phone line, two transformers, and five additional regular plugs ($60 list price; 800-428-6168). If you're surprising your spouse with a new car or a new kitchen, the Books That Work (800-242-4546) CD-ROMs can help you fit them into a stocking (and into your budget). The $30 Popular Mechanics Car Guide CD-ROM can help you pick—and price—your next vehicle. And the $50 3-D Kitchen disc offers a stunning way to design and preview your next kitchen. . . . **Kids' Stuff** How do you find the right gift for every child on your holiday shopping list? Start with *The Multimedia Home Companion for Parents and Kids* (Warner Books, 1995; $20; 800-222-6747), which evaluates more than 250 software titles for children. *Newsweek's Parent's Guide to Children's Software 96* includes a CD-ROM that previews 50 titles ($30 est. street price; 800-634-3002). And here's the gift that keeps on giving: a $30 subscription to *Club KidSoft* (800-354-6150), a magazine with a CD-ROM that includes unlockable copies of many

of the titles. . . . **Cat's Meow** Finally, don't forget the four-legged members of the family. Online felines will think *Internet for Cats* (No Starch Press, 1995; $9; 800-420-7240) is just. well, *purr-fect*. If your household is better suited for pets of the virtual kind, Dogz software from PF Magic (under $20 est. street price; 800-482-3678) gives you a choice of interactive canines to pet. **JZ**

Reader Service Numbers: Snappy Video Snapshot, *886*; Microsoft Windows 95 Video Guide, *887*; Workstation, *882*; Popular Mechanics Car Guide, *883*; 3-D Kitchen, *884*; *The Multimedia Home Companion for Parents and Kids*, *885*; *Newsweek's Parent's Guide to Children's Software 96*, *886*; *Club KidSoft*, *887*; *Internet for Cats*, *888*; *Dogz*, *889*

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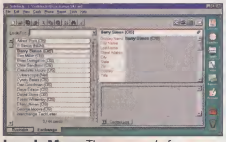
Office Supplies

Looking for the perfect gift for your favorite small-business owner? Something to simplify the tasks of doing business and keeping track of the bottom line? Trying to convince your significant other to spring for something really useful this holiday season? Or—most likely—will you be buying gifts for other people, when you really want to snag something cool for yourself? Hey, you've been a good boy. Uh, girl. Organism. Whatever. Check out *PC Computing*'s favorite stocking stuffers for folks in small offices.

Mighty Mite PIM Always at your desktop's side, Starfish Software's unobtrusive Sidekick for Windows 95 offers quick-and-easy access to personal information manager features you need most often: an address book, a calendar, a phone dialer with call history and notes, a to-do list, a bare-bones spreadsheet for expense reports, and even a word processor—with full font, style, template, and spell-checking capabilities, no less—to dash off the odd memo. It prints calendar pages to fit all the popular organizer binders, and displays times at eight user-selectable locations around the world. Best of all, Sidekick puts a usable face on Windows 95's ungainly Exchange Personal Address Book with one-click e-mail addressing. If you use Exchange, that feature alone pays the price of admission.

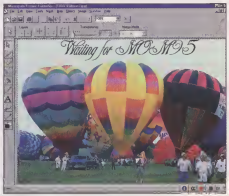


Less Is More: The vanguard of slimware, Sidekick concentrates on making business basics easy.

Charts Galore ClarisImpact makes so many different kinds of charts, you'll wonder where they found 'em all: calendars, time lines, tables, presentations, organizational charts, and flowcharts. ClarisImpact does automatic outlining, creates graphs from data, and includes freehand drawing tools with loads of clip art and fonts. It allows easy placement of text on charts, with full TrueType font support. You can import data from Word, WordPerfect, Excel, PowerPoint, Lotus 1-2-3, and many database and picture file formats as well. Best of all, ClarisImpact has the smarts to help you design top-notch documents even if you're artistically challenged: Some 120 professionally designed charts await your every whim. The results will impress you.

To Pro or Not to Pro? Microsoft's Office 95 Standard and Office 95 Professional remain the runaway best-sellers in the small-office suite category. And for good reason: Microsoft's best-of-breed word processor (Word) and spreadsheet (Excel) work together better than ever before—some would say for the first time. Word enhancements include quick right-click spell-checking and WordMail editing for Exchange e-mail. Excel yields faster recalculation times. The PowerPoint presentation software gets some much-needed improvements, and Schedule+ emerges as an almost-ready-for-prime-time PIM. The Professional package includes Bookshelf, a boon to many small offices, and Access, Microsoft's rapidly improving database. If you're looking for an excuse to put a CD drive on your office computer, Office Professional gives you all the justification you need. Still need another reason? Both editions of Microsoft Office are 50 percent off through December 31, which means you can get the whole Windows 95 suite for $249 (Standard) or $349 (Professional). Such a deal.

Draw, Pardner What? You already have Microsoft Office? Great! But you still need a graphics program. Longtime Windows graphics innovator Micrografx has just released ABC Graphics Suite, a combination of its Picture Publisher, Designer, ABC FlowCharter, and ABC Media Manager products. Updated for Windows 95 with a new user interface,

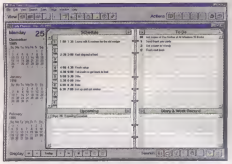


Oh, Sweet Graphics: ABC Graphics Suite grafts Picture Publisher and Designer onto Microsoft Office.

ABC Graphics Suite is designed to work the same way you work with Microsoft Office. We checked out the preview version, and its integration with Office is really impressive. The graphics suite includes outstanding software, 20,000 pieces of clip art, 7,500 photos, and 250 fonts. ABC Graphics Suite compares favorably with any draw or photo program you've ever used. Our big gripe? It shares Microsoft Office's quirk by installing to the Windows 95 Start Menu's bloated Programs list, without creating a submenu. Fortunately, that's something Micrografx can easily fix.

Follow the Money
Someday all your investing (and banking) will be as easy as Charles Schwab's StreetSmart 2.0. Account balances, portfolio tracking, stock quotes, discount online trades, investment history analyses, corporate reports, and just about any type of financial information you've ever encountered sits no more than a couple of mouse clicks away. After a somewhat problematic setup, StreetSmart connects itself to an online service and you're off with some very sophisticated online trading options. While it's obviously designed with the Schwab customer in mind, StreetSmart lets you track non-Schwab investments, and organize your entire portfolio regardless of where your investments live.

Shoot the Messenger
Still keeping track of your appointments on dead trees? Get with the program! Day-Timer Technologies' Organizer 2.0, which looks more than a little like its cellulose namesake, adds a mondo phone book, contact management (including phone conversation tracking), and expense reporting to its justly famous organizer. It allows amazingly flexible scheduling and rescheduling of appointments. It prints ten ways from Tuesday—labels, envelopes, phone books, and pages that fit your old hard-copy Day-Timer binder.



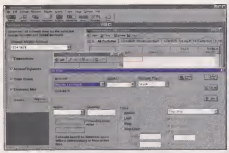
No Timer Like an Ol' Time: The familiar Day-Timer layout enters the electronic age with Organizer.

Uniformly Superb Yeah, yeah, we know: You've seen forms packages up the wazoo and back, and most of them are pretty lame. Well, this one is something different. JetForm's BizForms takes you step-by-step through assembling a logo (from the included clip-art collection or a scanned image or any BMP file), choosing from among more than 100 professionally designed forms, filling out the form, printing or faxing it, and then filing away the form. Automatic field calculation—dates, extensions, totals, even sales taxes—and a friendly take-you-by-the-hand approach to filling out forms make BizForms an excellent choice for any small business.

Form and Substance: BizForms uses a simple 1-2-3-4-step process to get you filling out custom forms in no time.

Stand Up to Windows 95 If the prospect of upgrading to Windows 95 has you in tears, try out The Improv Presents Windows 95 For the Technically Challenged. You'll still be in tears, but now it will be from laughing. This interactive CD-ROM tutorial features 16 stand-up comics who walk nervous neophytes through the intricacies of Windows 95 in a series of hilarious—but instructional—video clips. You'll feel like you're really at The Improv comedy club. Fix yourself a drink and invite a date to enjoy the show.

Let Your Mouse Do the Walking Would you believe you can have access to 95 million residential and business phone numbers? That's what Pro CD's Select Phone 1996 set of six CDs promises—along with one-click phone dialing, advanced list-management features, multiple search criteria, and an immediate display of a listing's physical location with the built-in MapView feature. Export the information to your favorite word processor, or use it as a sales tool and a way to organize contacts. All the CD-based phone books vie for the elusive distinction of being the most comprehensive and most accurate source (just for the record, none of them get Woody's listing right), but Select Phone stands out from the rest for its solid interface and links to the map. **WL**



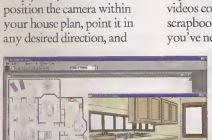
To a Portly Portfolio: StreetSmart from Charles Schwab puts you directly in touch with your investments.

Your Number's Up: Throw away the phone book. Select Phone's six CDs and integrated map cover the country.

On the Home Front

All work and no play makes you an insufferable drudge. Hey, this is supposed to be a fun time, with visions of sugarplums, multimedia CDs, and all that dancing in your head. Why have a home office if you can't kick back now and then? Check out our picks for holiday fun—and put the *ho* back in *So-ho-ho*. . . .

Up Against the Wall Broderbund's 3D Home Architect combines a capable drafting program with an extraordinary "camera." You simply use your mouse to position the camera within your house plan, point it in any desired direction, and click! There's a picture of what the house would look like if you were standing in that precise location. Pan by moving the slider. Rearrange plans with a couple of clicks. Uncanny—an architect in a box, with gobs of support material, samples, even video advice and blueprints to order. Now all you need is a one-click contractor.

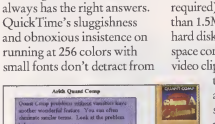


Walk Through Your Plans: The 3D Home Architect camera puts you in the middle of your dream house.

Scrappy Scrapbook Bringing the concept of the family album into the 21st century, Delrina's Echo Lake presents an entire support system for creating, maintaining, and displaying scrapbooks. Text, photographs (scanned or from Photo CDs), clip art, audio recordings, and videos combine to make a scrapbook the likes of which you've never seen. Extensive historical data makes it easy to link personal events to the world around. Innovative, original, and very easy to use, Echo Lake finally gives you an excuse to sit down and organize your family's story.

Tag a Tigger Disney's Animated StoryBook: Winnie the Pooh and the Honey Tree brings the magic of A. A. Milne's characters and Disney's amazing movie soundtrack to your home computer. Borrowing from Broderbund's Living Books shtick—and improving on it in some places—Winnie the Pooh and friends cavort in the Hundred Acre Wood on the pages of an interactive read-along book. Surprises lurk behind every click on the screen. It's Windows 95-aware—if you're running Windows 95, simply plop the CD in the drive and Winnie springs to life. Justin, our seven-year-old authority on such subjects, says, "It's as good as the Living Books." High praise, indeed, from a tough customer.

Mo' SAT If a student you know dreads running the Scholastic Aptitude Test (SAT) gauntlet, check out The Princeton Review's Inside the SAT. This QuickTime CD version of The Princeton Review's deservedly famous SAT course steps you through the basics of the test, then explores details of the verbal and math portions, with an indefatigable tutor who always has the right answers. QuickTime's sluggishness and obnoxious insistence on running at 256 colors with small fonts don't detract from the core material: videos of The Princeton Review's best instructors, insider tips, and very realistic practice tests.



Brains in a Can: Students can bone up for the SAT with The Princeton Review's renowned Inside the SAT.

A Great Hanukkah Present For a remarkable multimedia experience befitting the Hanukkah season, Jemm Productions' CD-Jemm, the Jewish Multimedia Magazine, tackles tough questions facing modern Jews all over the world. Video clips of real experts, plus lush photography and crisp writing, make this an e-zine worthy of your rare leisure moments. Sure, it's controversial—but what magazine worth reading isn't? It includes separate sections for teens and kids. Perfect for goyim unsure of what to give their Jewish friends during the Feast of Lights.

I Could Just Screen Amazingly compact, each of Sony's Music Screeners comes on a single floppy disk (no CD required), and takes up less than 1.5MB of space on your hard disk. That tiny bit of space contains a full 30-second video clip, plus software to run the clip. You can use it as a screen saver in several different modes, and play matching or Tetris-style games with it. Choose from 21 disks covering a broad range of Sony artists from Stevie Ray Vaughan, Michael Bolton, and the Indigo Girls to Toad the Wet Sprocket.

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Make your next party your best party. Organize guest lists and invitations. Track expenses, gifts and thank-you notes.

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Put your phone book on line and never lose track of a friend's phone number again. Store phone and fax numbers, and use your modem to dial automatically.

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Take control of your income and expenses. Analyze your spending habits. Print checks and keep an on-line register. Develop a budget and then track your progress.

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Record all your valuables for insurance purposes. View belongings by category or location. Estimate replacement costs.

Home Repair
Every home owner knows a house requires constant upkeep. Track repairs, improvements and expenses. Plan for major projects.

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ATB

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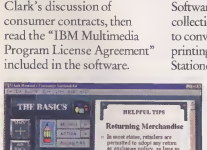
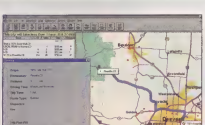
SohoGift Guide

Save the Whales Curious about the plight of America's endemic threatened and endangered animals? You don't have to be a tree hugger to appreciate Zane Publishing's Encyclopedia of U.S. Endangered Species, a detailed account of the impending demise of many types of wildlife. The CD includes 20,000 pages of text, including 3,500 color photos, and covers species from the Ae'o (better known as the Hawaiian Stilt, a wading bird), to the Ziziphus (a Florida shrub with zigzag branches and white flowers). Screen savers, too!

Nader in Pinstripe Tired of getting sand kicked in your financial face? IBM's Consumer Survival Kit presents Clark Howard, one of America's top consumer gurus, in a series of informative video clips and written essays that cover many of the issues you face all the time: buying a car or a house; standing up for your rights, whether in a store or in small-claims court; drawing up contracts; saving on travel; investing; avoiding any of a long list of rip-offs; and much more. Here's an interesting exercise: Listen to Clark's discussion of consumer contracts, then read the "IBM Multimedia Program License Agreement" included in the software.



Ode to a Consumer Society: Learn how to keep more of what you earn with the Consumer Survival Kit.



Road Trip: The best way to get from point A to point B can also be the most interesting with TripMaker.

Are We There Yet? Rand McNally's TripMaker 1996 Edition has to be the ultimate trip-planning software for folks traveling by car in the United States, Canada, or Mexico. TripMaker provides quick, accurate routing, with written directions. The Explorer Guide wizard points out the sights along the way according to criteria you set. The 250 city maps look gorgeous printed on a high-quality, color dot-matrix printer. Check out the video clips, distance calculation, alternate side trips, and descriptions of tourist attractions. TripMaker will keep you dreaming of the summer during those long winter nights.

Color on the Run You don't necessarily need a Canon printer to run Canon Creative Software, a delightful collection of packages designed to convince you that color printing is here and now. The Stationery Store from DogByte Development includes templates for more than 250 styles of stationery with matching envelopes. The Sticker & Label Store from DogByte comes with many Avery-label types and a wide array of design tools. Crayola Art from Micrografx includes its award-winning paint program, plus an entire collection of coloring books. HobbyWare's Pattern Maker takes advantage of the Canon printers' ability to print on fabric; you can design your own cross-stitch patterns and print them directly on paper or onto cloth.

Life Is Just a Bowl of Bubbles Continuing its tradition of superb, engrossing titles for kids, Humongous Entertainment's Freddi Fish and the Case of the Missing Kelp Seeds combines gorgeous graphics with an absorbing story line, fun activities, and free-form play to keep your kids transfixed. They'll help Freddi find Grandma Grouper's Treasure Chest and bring the kelp seeds back to feed the fish. If you're running Windows 95, the CD installs itself—all you do is stick it in the drive and you're ready to go. Justin, our seven-year-old tester, deemed Freddi Fish "cool"—the schoolyard equivalent of two thumbs (and two fins) way up.

Follow the Eyes: Freddi puzzles out a hard math problem while gathering items to find the missing kelp seeds.

Pass the Pith Helmet Kids age ten and older will learn about the Earth and the challenges that confront all people in Apple/Enteractive's Earth Explorer, a QuickTime CD loaded with information on our biosphere. Developed in conjunction with the American Association for the Advancement of Science, and funded in part by the National Science Foundation, this CD's 90 minutes of video clips and 400 articles cover the world. It includes extensive discussions of human impact on the environment, and hot topics like pollution and global warming. Data charts, games, and guided tours round out the package. If it weren't for QuickTime's sluggishness and insistence on changing display settings. . . .

Far Freakin' Trout, Man Compton NewMedia/Rockument's Haight-Ashbury in the Sixties CD delivers one walloping stab from the past. If you can remember the sixties, you weren't there—you gotta watch this CD to reconstruct a few fried neurons. Grace croons slickly, Janis jumps, and Timothy Leary is very much a presence. Be sure you read the liner notes. Where's the manual? You don't need a manual, man: Just groove to either of the two CDs. They use QuickTime for Windows, so it takes forever to get loaded. Come to think of it, the sixties were like that, weren't they?

Multimedia Monte More than just a magic how-to CD, Broderbund's Learn the Art of Magic contains an entire magic kit, including props. Stop-action videos show you how to perform the trick

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before an audience, then show how the magic trick actually works, ably demonstrated by magician Jay Alexander. Everything's included for dozens of interesting magic tricks, but be careful when you open the box: The plastic ball and the vase prop have a nasty habit of falling out and breaking.

Now You See It: Try to follow the disappearing ball with Jay Alexander in Learn the Art of Magic.

SF So Fine If you have the slightest interest in science fiction (and with politics the way it is these days, who doesn't?), check out Grolier Electronic Publishing's Encyclopedia of Science Fiction. From obscure beginnings in the 17th century and earlier to the next millennium, this CD will amaze any sci-fi fan with its depth and breadth. In addition to a 6,000-entry encyclopedia, the CD includes short video clips of many important authors and several movie trailers, plus full search capabilities, synopses of 300 books, and even a time line. What's missing? Complete texts of books in the public domain would be a big boost, but even without them this is one CD no serious science fiction fan should be without.

And Everything: Discover Adams's vision of life and the universe with the Encyclopedia of Science Fiction.

Our Finny Friends More than anything, AnimaTek's Nature Collection: Freshwater Fish takes dedication. If you put it on a Windows 95 system, the installer overwrites an important system file—luckily, Windows 95 notices it and restores the correct file when you reboot. The interface can best be described as, uh, klunky. The tutorial can't teach all facets of this complex program at once. But if someone you know has a fish tank and loves to solve puzzles, this build-a-public-aquarium simulator will keep them engrossed for days. **WL**

Contributors to Soho: MARTY BEAUDET, WOODY LEONHARD, *and* JON ZILBER. *Edited by* KIM AUSTIN.

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Apple/Enteractive / (800) 452-9949 / $50 est. street price /
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Echo Lake
Delrina Corp. / (800) 324-6553 / $60 on CD-ROM, $50 on floppy disk, est. street prices /
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Grolier Electronic Publishing / (800) 285-4534 / $60 est. street price /
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Encyclopedia of U.S. Endangered Species
Zane Publishing / (800) 769-3723 / $25 est. street price /
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Haight-Ashbury in the Sixties
Compton NewMedia/Rockument / (800) 261-6109 / $35 est. street price /
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CYBER TRAVEL AGENTS

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All of the major online services—America Online, CompuServe, and Prodigy—offer interactive travel-reservation systems such as American Airlines' Eaasy Sabre, which provides flight itineraries for all the major carriers. In addition to flight-booking services, you get detailed travel information and advisories, including guidebooks from Lonely Planet Publishing and restaurant-review books from Zagat. Many hotels and car-rental agencies also provide information and bookings via the Web. Major hotel chains, including Hyatt, Holiday Inn, and Hilton, have home pages; you'll also find Alamo Rent A Car and Amtrak online.

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ONE-MINUTE GUIDE Travel First-Class: Great Escapes Online

Your bags are packed, but you still need plane tickets. And what about hotel reservations? If you haven't already called your travel agent, try these essential travel-related Web sites and online services.

THE TRAVEL CHANNEL Hit this site for travel talk, facts, and info on vacation getaways (http://www.travelchannel.com).

HILTON Visit Hilton's home page and reserve a room (http://www.hilton.com/).

ALAMO RENT A CAR Looking for something in a subcompact? How about a convertible Mustang? Drive your browser to Alamo's site (http://www.freeways.com).

INTERNET TRAVEL NETWORK Get your tickets from ITN's Web-based travel agents (http://www.itn.net).

PC TRAVEL Book flights through PC Travel, and they'll deliver your tickets the next day (http://www.pctravel.com).

EAASY SABRE Access American Airlines' Eaasy Sabre site for flight information on all the major carriers. It's free with accounts from CompuServe (GO SABRE) or America Online (keyword SABRE). You can call (800) 972-3330 for more information.

GO EXPLORE Frequent business travelers can get detailed data on the 50 largest U.S. metropolitan areas, including maps, weather forecasts, restaurant listings, and business services (http://go-explore.com).

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Make CompuServe's File Cabinets More Useful *****

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Pretty Good Privacy for Windows 3.1 and Windows 95 *****

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File: PGPW40.ZIP **Size/Time*:** 742K/8 minutes

Prepare for the Big Scrabble Tournament *****

Wordy is an excellent DOS word game for adults and children. It pays to enrich your word power.

File: WORDY313.ZIP **Size/Time*:** 410K/3 minutes

Gorgeous Web-Page Backgrounds ****

Don't settle for the default gray background. Use one of these graphics to add life to your site.

File: 8KGRUNDS.ZIP **Size/Time*:** 49K/2 minutes

Edit Your Windows NT Registry with Ease ****

Registry Search and Replace is a handy 32-bit utility for editing the Windows NT Registry.

File: REGSRCH.ZIP **Size/Time*:** 169K/2 minutes

Play It Again, and Again, and Again ****

TrayCD is a Windows 95 CD Player utility that anchors itself to the system tray.

File: TRAYCD.ZIP **Size/Time*:** 336K/3 minutes

A Different Way to Run Windows 95 ****

Streamline your application launches and Windows 95 desktop with LaunchPad.

File: LAUNCH10.EXE **Size/Time*:** 284K/3 minutes

It's Beginning to Look a Lot Like . . . ****

This holiday season, run a Santa screen saver on your Windows system—complete with "Jingle Bells."

File: SANTA3.ZIP **Size/Time*:** 533K/5 minutes

Do the Warp Thing ***

Attach this *Star Trek* Warp sound to any system event.

File: WARP.ZIP **Size/Time*:** 35K/2 minutes

A Is for Apple ***

Spelling Voice uses sounds to help your child practice spelling.

File: SPVOICE.ZIP **Size/Time*:** 519K/4 minutes

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ELECTION YEAR AHEAD Clinton? Dole? Powell? Start thinking about the ballot box with Project Vote Smart.
http://www.vote-smart.org

SCREEN SAVIDRS Berkeley Systems released the Totally Twisted After Dark screen saver with flying toilets.
http://www.berksys.com

CYBERSHOP 'TIL YOU DROP The interactive department store from CyberShop includes CyberBride and CyberBaby.
http://cybershop.com

MIXING CHEMICALS Create chemical charts for everything from caffeine to cannabis with SoftShell's Chem Web.
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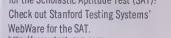

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2. Set your software to 7 data bits, even parity, 1 stop bit, full duplex, and dial the service.

3. Press Ctrl-C to get the system's attention, and at the HOST NAME prompt, type CIS and press Enter.

4. For USER ID, type 177000,5300, and at the PASSWORD prompt, type PC/CONTACT.

5. At the ENTER AGREEMENT NUMBER prompt, type PCC95.

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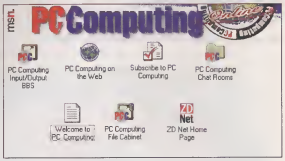

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House of Games

You don't want a tie or a fruitcake or even an electronic spreadsheet for Christmas. You want *toys!* Lots and lots of toys! Anything that remotely resembles work will remain buried under the tree until it's covered in dead pine needles. Here's the best of the CD toys: games for folks of all ages—pacifists and sadists alike.

Gore One! Mortal Kombat 3 gives you all the action of the arcade version.

MORTAL KOMBAT 3

●●●●●

If you have any adolescent males in your household, they'll want Mortal Kombat 3. You know the one—two martial-arts fighters face off, sometimes literally. The players control the fighters with an arcane pattern of joystick movements and button pushes that don't make sense to anyone over the age of 15. Adults, mad that they look like fools every time they try to play Mortal Kombat, have taken to grousing about all the violence and blood. And the DOS PC version of Mortal Kombat lives up to the arcade game's reputation for gore. Blood splatters in bucket-size gushes. And, according to my pubescent advisors, the controls, action, and secret moves are true to the arcade original.

Mortal Kombat 3 / GT Interactive / (800) 610-4847 / $50 est. street price / *Reader Service No. 466*

PRIMAL RAGE

●●●●●

When Mortal Kombat 3 is sold out, this is the first fallback; it's the other big combat arcade hit to make it to PCs. The contestants are dinosaurs and giant apes (although the story line has them being gods, or something like that). There is blood, lots of it, but the cool artwork and creatures make up for the gore.

Primal Rage / Time Warner Interactive / (800) 482-3766, (408) 433-3999 / $50 est. street price / *Reader Service No. 467*

BATTLE BEAST

●●●●●

This is the best attempt at a bloodless Kombat clone. It uses animation of puppies and other terribly cute animals that turn into armored fighting robots. There's no blood and gore—just loads of loose gears and springs. The animation in the Windows CD is first-rate, and the play is good and fast. Despite the cuteness overkill, adults will find enough going on to enjoy it.

Battle Beast / 7th Level / (800) 884-8863, (214) 498-8100 / $50 est. street price / *Reader Service No. 468*

Cute Kombat: Battle Beast's cute animals duking it out, sans gore.

RISE OF THE ROBOTS

●●●●

More robots, but no cutesy animals. Still, the animation is just as polished as in Battle Beast. And again, no blood (just sparks) from the DOS-powered metal men. Controls are a bit awkward, however, even for an adult.

Rise of the Robots / Time Warner Interactive / (800) 482-3766, (408) 433-3999 / $30 est. street price / *Reader Service No. 469*

YOU DON'T KNOW JACK

●●●●

If you've wasted away part of your life playing Trivial Pursuit or watching *Jeopardy*, here's another wonderful waste of time. This multiuser Q&A game boasts great music, visual effects, a sarcastic game host, and lots of humor.

You Don't Know Jack / Berkeley Systems / (800) 344-5541 ext. 100 /$30 est. street price / *Reader Service No. 470*

FURY 3

●●●●●

TERMINAL VELOCITY

●●●●●

Microsoft knows a good thing when it buys it. Fury 3 is Microsoft's post-purchase adaptation of Terminal Velocity, one of the first of a stunning new type of game—like Flight Simulator but not boring. In both games you control a flying vehicle, but don't even think about landing

●●●●● *Twelve drummers drumming.* ●●●● *Ten Lord & Taylors.* ●●● *Five golden arches.* ●● *Three French mimes.* ● *A partridge in a sitcom show.*

PHOTOGRAPH BY JAMES McGOON

Fly and Destroy: Microsoft's flight sim, Fury 3, soars over detailed terrain.

it. The closest you get is plowing through tunnels from one place to another on a planet. Beneath you are 3-D textured landscapes of mountains, valleys, plains, and seas, studded with cities and war machines marching to destroy civilization. It's constant action both on the ground and in the air, and the realistic details are amazing: When you shoot an enemy flier, the flier careens into a mountainside, scattering debris everywhere. Fury 3 is a Windows 95 game. Terminal Velocity is DOS and has a shareware component you can download from PC Contact (see page 366). They're both fast, a-thrill-a-second winners.

Fury 3 / Microsoft / (800) 426-9400, (206) 882-8080 / $49 est. street price / *Reader Service No. 471*

Terminal Velocity / Terminal Reality; 3D Realms Entertainment / (800) 337-3256 / $49 est. street price / *Reader Service No. 472*

THE ULTIMATE DOOM ●●●●●

Doom, video's classic game, reaches new heights in The Ultimate Doom. This DOS game (which plays just dandy under Windows 95, by the way), includes the original three episodes and a new one called Thy Flesh Consumed. Also included are nine levels and five hours of access to Dwango, the dial-up game network where you can engage in death matches with other Doom fanatics. (If you somehow haven't heard of Doom at all, you can download the first episode from PC Contact.)

The Ultimate Doom / id Software; GT Interactive / (800) 434-2637; (800) 610-4847 / $37 est. street price / *Reader Service No. 473*

WITCHAVEN ●●●

This Doom clone—or more accurately, Heretic clone—leans heavily on the medieval trappings, but skimps on variety. All the weapons are variations of a hand weapon, involving some sort of hacking away at villains (nothing explodes, unfortunately). The villains exhibit little imagination. Most of them, vaguely demon-shape, are distinguished from one another by color. It includes some nice touches, such as booby-trapped pools of water, but it doesn't have the excitement or vision of its cousins. Oh yeah, there's supposed to be some nudity in it, but the only thing I saw were some demon butts.

Witchaven / IntraCorp; Capstone / (800) 468-7226 / $50 est. street price / *Reader Service No. 474*

HERETIC ●●●●●

This is the best of the Doom imitators—a rich, imaginative game in its own right. The setting is medieval instead of futuristic, and the monsters are creatures of magic. The best are the flying gargoyles that can team up on you. This DOS game's playability, fascinating artwork, and layout earned it a *PC Computing* MVP Award. Download the shareware version from PC Contact.

Heretic / GT Interactive / (800) 610-4847 / $40 est. street price / *Reader Service No. 475*

Modular Mech Warrior: If you build him, he will destroy his opponents.

MECHWARRIOR 2 ●●●●

This CD combines Doom and Tinker Toys. It satisfies your urge to be a mad inventor by letting you assemble mechanized warriors from weapons, armor, and robotic arms and legs. Then you satisfy the urge to be a berserker by wasting opponents using lasers, machine guns, and plain old pounding. Plenty of good play and endless opportunities to fiddle with components.

MechWarrior 2 / Activision / (800) 477-3650, (310) 473-9200 / $60 est. street price / *Reader Service No. 476*

PHANTASMAGORIA ●●●●●

Most attempts I've seen to incorporate video into games are clumsy and make even made-for-TV movies look good. Phantasmagoria is the rare exception. The character videos blend smoothly into the animation and wide-screen 3-D sets. And the play itself is nice and spooky.

Home Alone: Follow a crazed woman exploring a Phantasmagorical house.

You get to follow a nightmare-tormented woman who has moved into an old house with her hubby. The house, naturally, has secrets. The action is slow and the game requires more time and patience than most people really have, since it comes on seven CDs. This game does contain adult themes that could offend some users, and there is some nudity, but you have to play for several hours to find it. Phantasmagoria is a DOS game, but it runs under Windows and Windows 95.

Phantasmagoria / Sierra On-Line / (800) 757-7707 / $57 est. street price / *Reader Service No. 477*

DESCENT ●●●●●

Oh, momma, this is dangerous! Like Doom on crystal meth. This DOS game, from Parallax Software, uses the same 3-D texture-mapped graphics and includes modem and network play found in Doom. But it's 3-D cubed. You can move 360 degrees horizontally and vertically, and you can loop the loop. It has 3-D maps, which at first are more mind-boggling than helpful. The bad guys (flying vessels) are texture-mapped, which gives them a geometric appearance and isn't really anything but a technical improvement over Doom's monsters. But the other effects are spectacular. You shoot a missile down a dark corridor and it lights the walls along its path. Descent is a faster, more frantic game for those who find Doom too

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slow. Download the shareware portion from PC Contact. The CD version includes new levels, new enemies, and an enhanced soundtrack and sound effects.

Descent / Interplay / (800) 468-3775, (714) 553-6678 / $35 est. street price / *Reader Service No. 478*

FULL THROTTLE ●●●●

For something lighter and less violent, get Full Throttle. In this DOS CD, which also runs under Windows 95, you control the head of the Polecats bike gang. You can even smell the asphalt and trouble in this animated story with a film noir quality.

Full Throttle / LucasArts / (800) 985-8227, (415) 472-3400 / $50 est. street price / *Reader Service No. 479*

COMMAND & CONQUER ●●●●●

Remember those dorky war board games where you moved a bunch of markers around on a map and you had to count up whether you or your opponent had more firepower to figure out who won? Lame, right? Here's what that type of game should be. You control an army that moves with the ease of a mouse-click over terrain studded with bluffs, trees, and villages. An encounter with the enemy is no matter of mere math. It involves shooting, screaming, explosions, and dead civilians. There's also supposed to be 3-D animations and live-action video. I never found them, but I don't really care. This CD is complex enough—with ground emplacements, repair facility, and a helipad—that interest never lags. This CD from Westwood Studios is fun for solo play, but it also has network and modem modes so you get the chance to battle real human intelligence. Even the installation, filled with sounds and voices, is a hoot.

You and Your Army: Command and Conquer with explosions and death!

Command & Conquer / Virgin Interactive Entertainment / (800) 874-4607, (714) 833-8710 / $58 est. street price / *Reader Service No. 480*

THE MYSTERY OF THE QUEEN'S NECKLACE ●●●●

You're at Versailles during the reign of Louis XIV, when some royal jewels are stolen. Your job is to find them. You're assisted by only 1,000 *livres,* your wits, and a palace cat. This Windows mystery is subtly educational, but more enjoyable than reading a textbook. It's a bit slow at times, and the genteel atmosphere of Versailles doesn't make for rock-'em-sock-'em action. It's charming and interesting enough to while away an evening.

Royal Mystery: Make a feline friend and find the jewels stolen in Versailles.

Louis Cat Orze: The Mystery of the Queen's Necklace / IVI Publishing / (800) 432-1332 / $35 est. street price / *Reader Service No. 481*

BIZARRE ADVENTURES OF WOODRUFF AND THE SCHNIBBLE ●●●●

And now for the youngsters in the audience, let's bring on Woodruff and the Schnibble. Give 'em a big hand. . . . These animated characters go wherever you click in a Dr. Seuss-like town as you try to solve a—well, it's not clear exactly what you're supposed to do, and of course that's part of the game. But it's funny, and the challenges are not too hard for younger kids—or too simple for older ones.

The Bizarre Adventures of Woodruff and the Schnibble / Sierra On-Line / (800) 757-7707 / $40 est. street price / *Reader Service No. 483*

Back to the Future: Buried in time, you must protect destiny.

BURIED IN TIME: THE JOURNEYMAN PROJECT 2 ●●●●●

This is a clever first-person adventure set in the future and the past. Your role as a time cop trying to stop others from changing destiny is inventive and imaginative as it takes you to different historical periods to solve riddles. Its predecessor was heavy on still artwork, while this has a Doom-like quality. But this is a thinking game—leave your trigger finger behind.

Buried in Time: The Journeyman Project 2 / Sanctuary Woods / (800) 943-3664 / $65 est. street price /*Reader Service No. 482*

PUTT-PUTT GOES TO THE MOON ●●●●

This is perfect for little children. This is a story about a talking car that rides fireworks to the moon—cute and minimum frustration. No matter where you click, something delightful happens.

Putt-Putt Goes to the Moon / Humongous Entertainment / (800) 499-8386, (206) 485-1212 / $40 est. street price / *Reader Service No. 484*

Herbie Goes PC: Putt-Putt's talking car takes you to the moon.

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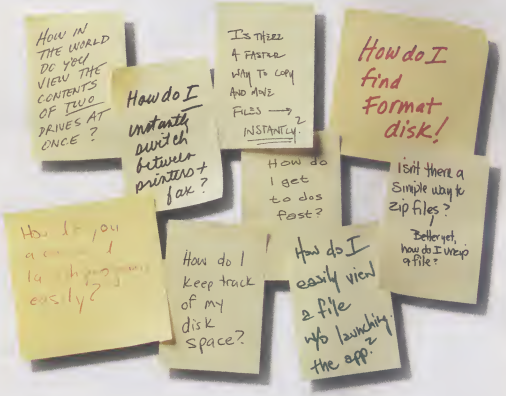
A few of our favorite Windows® 95 questions.



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HotList

Bookmarks of the Rich and Famous

Ho-Ho-HotList. This month we sent our spies north to infiltrate Saint Nick's busy workshops. With all the preholiday activity, swiping a copy of the Kringle bookmark list was a piece of fruitcake. See who's been a little naughty this year—here, and online at http://www.zdnet.com/~pccomp/

Is There a Santa Claus? (rebuttal to a Spy magazine article)
http://meta.stanford.edu/funny/others/santa-claus

Yes, Virginia, There Is a Santa Claus "(1991 TV movie)
http://www.msstate.edu/M/title-exact?378069

Lyrics to "Grandma Got Run Over By a Reindeer" (by the Irish Rovers)
http://www.america.net/christmas/grandma.html

Santa Claus Conquers the Martians (1964 movie)
http://www.auburn.edu/~vestmon/christmas_movie.html

Fruitcake and Other Christmas Recipes
http://www.america.net/christmas/recipes.txt

Rudolph the Reindeer Emoticon (The Whole Smiley Face Catalog)
http://www.u-strasbg.fr:80/services_w3/smileys.html

Santa's Sleigh Rides the Information Superhighway
http://www.inbnet.net:80/pub/XMAS/Santa.on.Net.www

How the Grinch Stole Christmas
http://www.afn.org/~afn15301/seuss_stories/grinch.txt

The Grinch Net
http://lamar.colostate.edu/~ddave/grinchnet.html

David Letterman's Christmas Top Ten (Top Ten Ways Santa Relaxes, and so on)
http://bingen.cs.csbsju.edu:80/letterman/top/ten/dai53.html

Simpsons Roasting on an Open Fire
http://cathouse.org:80/cathouse/television/the.simpsons/simpsons.roasting.on.an.open.fire

Case Report: Aerial Sleigh-Borne Present-Deliverer's Syndrome
http://www.csua.berkeley.edu:80/~benco/humor/SantaMedicalReport

Interview with Bill Clinton on Christmas Shopping
http://docs.whitehouse.gov/white-house-publications/1993/12/1993-12-10-interview-of-president-on-the-home-show-live.text

Naughty Reindeer Jokes
http://cathouse.org:80/cathouse/humor/christmas/misc.christmas.jokes

The Night Before Christmas (by Clement Clarke Moore)
http://www.america.net/christmas/christnt.html

The Night Before Christmas (by a technical writer who does government contracting)
http://www.mit.edu:8001/afs/athena.mit.edu/user/a/w/avondale/Humor/ChristmasHumor/HTML/TechnicalXmas.html

A Visit from Saint Nicholas (Conehead version)
http://www.civeng.carleton.ca:80/CSES/VENA/V714/xmas.html

Politically Correct Santa
http://dolphin.upenn.edu:80/~newman/pcsanta.html

The MH-2600—Santa's Cyber-sleigh
http://christmas.com:80/sleigh-stats.html

Grateful Dead—Run, Rudolph, Run
http://www.cs.cmu.edu:80/~mleone/gdead/dead-lyrics/Run_Rudolph_Run.txt

The Year Without a Santa Claus (1974 TV movie)
http://www.msstate.edu/M/title-exact?36F6E9

Santa Claus Is Comin' to Town (1970 TV movie)
http://www.msstate.edu/M/title-exact?2B07C1

Send Santa a "Nice Adult" Letter Or a "Naughty Adult" Letter
http://branch.com:1080/santa/santa.htm

The Gift of the Magi (by O. Henry)
http://www.america.net/christmas/magi.html

A Christmas Carol (by Charles Dickens)
http://www.america.net/christmas/carolmenu.html

Carol Lyrics: "Deck the Halls," "The First Noel," "Away in a Manger"
http://www.america.net/christmas/

Santa Gets Spammed
http://www.cse.ind.edu:80/NGUnderground/text/Santa_Spam

Decorate Your Digital Tree
http://north.pole.org:80/santa/tree.html

Christmas Acronyms
http://grumpy.usu.edu:80/~bob/ANSH93.TXT

Disney's Santa Clause (with lots of JPEGs and QuickTime movies)
http://www.disney.com:80/BVPM/PressRoom/SantaClause/SantaClause.html

Disney's Santa's Workshop (1932 movie)
http://www.msstate.edu/M/title-exact?2B0AFF

Christmas Pictures (GIFs)
http://wepf.zib-berlin.de:80/HTMLs_English/Christmas.html

Norwegians Claim Santa Is Theirs
http://web.telepost.no:80/Santa/Claus.html

Your Direct Line to the North Pole—Interact with Santa Claus, Rudolph, or the Elves
http://north.pole.org/santa/talk_to_santa.html

Shop from the North Pole
http://www.polamet.com:80/Users/ZookermanSanta/

The Chimney Sweeper (by William Blake)
gopher://ftp.std.com:70/00/obi/book/William.Blake/The.Chimney.Sweeper

Alice's Advent Calendar
http://www.combs.nc.sc.uk/twi/users/jonatha.n.bowen/children/alice/advent/

Christmas in Las Vegas
http://rampages.onramp.net:80/~sealand/las_vegas.html

Santa's Domain on the Web
http://christmas.com:80/

New Star Trek Christmas
http://www.cosy.sbg.ac.at:80/ftp/pub/trek/fun/trekmas.txt.141.201.2.47

Welcome to Santa's Workshop
http://www.cyberspace.com:80/santa/

Welcome to the North Pole
http://north.pole.org:80/santa/

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